2022

TECHNICAL CATALOGUE
Industrial Rubber Hoses

Roiter
FLEXIBLE SOLUTIONS

LRQA CERTIFIED ISO 9001:2015
UKAS MANAGEMENT SYSTEMS 001

www.roiter.com

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Via Grandi 5, 45100 Rovigo (Ro) - Italy
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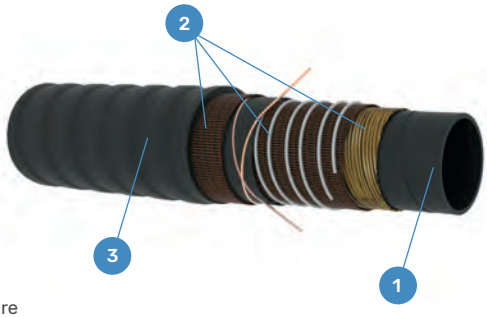
Technical information
Hose construction

Basically, a hose consists of:

1. **Rubber tube**
   Designed to have the best resistance for the conveyance of the specific medium.

2. **Reinforcement**
   Which allows the hose to withstand dynamic pressure, absorbs compression strain and gives dimensional stability to the hose.

3. **Rubber cover**
   Is designed to protect the reinforcement against abrasion, aggressive media such as acids, oils, chemicals, ozone. Where extreme temperatures are involved, special outer protection covers can be used.



The above drawing illustrates a hose designed to resist pressure.
For applications requiring resistance to vacuum, and suction, a steel wire helix is embedded into the hose body.
The spiral also increases the flexibility of the hose.

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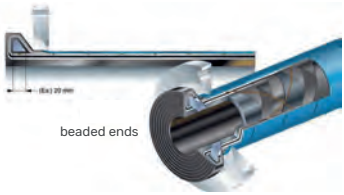
Technical information
Fittings

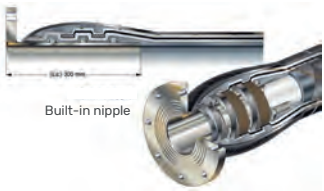
Beaded ends
A steel ring is built into the hose end and fully embedded with the reinforcement.
The swivel flange allows ease of installation; the hose can be rotated, so that wear can be even distributed on all the hose circumference, for a longer hose life.
This construction allows full flow and avoids contamination, abrasion and corrosion.

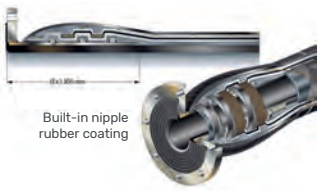

beaded ends

Integral rubber flange
The flange is made of rubber reinforced with textile plies and steel ring. This construction allows full flow and avoids contamination, abrasion and corrosion.

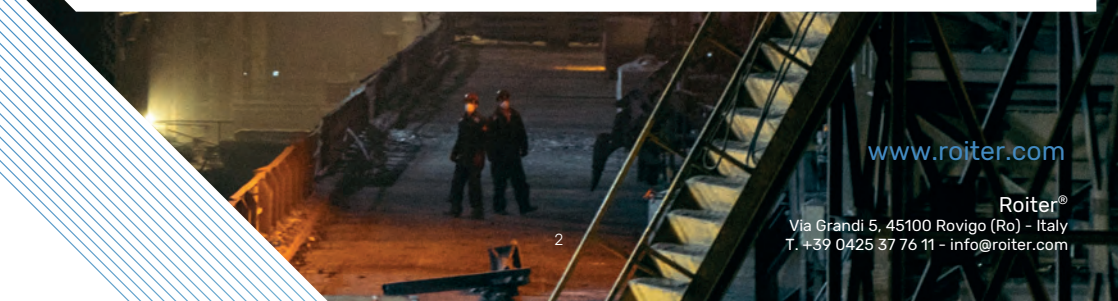

Integral rubber flange

Built-in nipple
- The steel nipple is vulcanized into the hose body. It can be supplied with fixed or swivel flanges.
- This construction is also available with rubber coated nipples and flanges.


Built-in nipple


Built-in nipple
rubber coating

Swaged
The fitting and hose body form an integral unit which gives exceptional strength against blowout and leakage.
Fitting is crimped with external ferrules.



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Technical information
Instructions for cleaning of food hoses

Food & Beverage hoses, requires to be cleaned, according to International Standards.
This will guarantee that no harmful or polluting substance can contaminate the transported edible products.
Please follow the below instructions, to guarantee ideal performance of the hoses, to avoid any influence on the smell or taste of carried products, and ensure a long hose life.

Initial cleaning

New hoses usually do not have any effect on the smell or taste of the transported media. However, each hose should be treated before their initial use as follows:

1. Step — Treat for 24 hours with 1% phosphoric acid (25°C)
2. Step — To follow, treat with 2% sodium hydroxide solution or 2% sodium carbonate solution
3. Step — Finally, rinse with clear water before the initial use

Standard cleaning

1. Step — Treat briefly with 2% sodium hydroxide or 2% sodium carbonate at 80°C
2. Step — Followed by flushing with clear hot and cold water

Steam sterilization

A steam sterilization is suitable under the following conditions for all ROITER food quality hoses:
Loose steam up to 120°C for max 15 min. This means, one end of the hose must be always kept open so that the steam can flow, and no pressure can be build-up.

Resistance against cleaning agents

Cleaning under following conditions should not cause significant changes in hose properties.

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Technical information

Instructions for cleaning of food hoses

For hoses with NR and NBR tube please follow respectively, the maximum values for concentration and temperature, as indicated below ,without pressure:

Cleaning agents	Max. cleaning agent concentration	Max. temperature
Aqueous dilution of the prevalent acids phosphoric acid (H_3PO_4), nitric acid (HNO_3) and sulfuric acid (H_2SO_4) as well as cleaning agents based on these ingredients	max. 1-2%	up to max. +25°C
Aqueous alkaline solutions of sodium hydroxide (NaOH), potassium hydroxide (KOH), sodium bicarbonate ($NaHCO_3$) and soda (Na_2CO_3) as well as cleaning agents based on these ingredients	max. 2%	up to max. +60°C
The disinfectants hydrogen peroxide (H_2O_2), sodium hypochlorite (NaClO) and peracetic acid may only be applied in very high dilution to avoid massive chemical attack of the inner liner	max. 250 ppm	up to max. +25°C

Hoses with EPDM, UHWMPE and Butyl show higher resistance towards more challenging cleaning conditions, provided that the below indicated maximum concentrations and temperatures without pressure are rarely applied:

Cleaning agents	Max. cleaning agent concentration	Max. temperature
Aqueous dilution of the prevalent acids phosphoric acid (H_3PO_4), nitric acid (HNO_3) and sulfuric acid (H_2SO_4) as well as cleaning agents based on these ingredients	max. 2%	up to max. +40°C
Aqueous alkaline solutions of sodium hydroxide (NaOH), potassium hydroxide (KOH), sodium bicarbonate ($NaHCO_3$) and soda (Na_2CO_3) as well as cleaning agents based on these ingredients	max. 5%	up to max. +80°C
The disinfectants hydrogen peroxide (H_2O_2), sodium hypochlorite (NaClO) and peracetic acid may only be applied in very high dilution to avoid massive chemical attack of the Inner liner	max. 1000 ppm	up to max. +40°C

Please note that repeated application of the hose close to the given limits for longer periods can shorten the lifetime of the hose significantly. Please also refer to the respective datasheets for additional information.

Special cleaning agents: the suitability of special industrial cleaning agents and disinfectants (also for CIP facilities) depends on their actual composition. Supplier recommended concentrantion and temperature limits for rubber hoses, should be respected in any case. If doubts concerning chemical resistance towards a cleaning agent arise, our technical hose division may give advice based on the technical and safety datasheets of the agent.

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Technical information

Characteristics of rubber compounds

Elastomer	Polychloroprene	Acrylonitrile-Butadiene	Natural Rubber	Styrene-Butadiene	Isobutylene-Isoprene	Chlorinated Polyethylene	Cross Linked Polyethylene	Ultra High Molecular Weight Polyethylene	Chlorosulfonated Polyethylene	Ethylene-Propylene Diene	Ethylene-Propylene	Polyurethane	Fluoro-elasomer
Common name	**Neoprene**	**Nitrile**	**Natural Rubber**	**SBR**	**Butyl**	**CPE**	**PE-X**	**UPE**	**Hypalon***	**EPDM**	**EPR**	**Urethane**	**Viton***
ASTM designation	**CR**	**NBR**	**NR**	**SBR**	**IIR**	**CM**	**PE-X**	**UPE**	**CSM**	**EPDM**	**EPR**	**EU**	**FKM**
Physical strength	+	+	+++	+	+	+	+	++	+++	+	+	+++	+
Resistance to:													
Abrasion	+	+	+++	+	+	+	+	+++	+	+	+++	+++	+
Ozone/Weather	+++	--	--	+	+++	+	+++	+++	+++	+++	+++	+	+++
Gas Permeation	+	+	+	+	+++	+	+	+++	+	+	+	+	+
Petroleum Oils	+	+++	--	--	--	+	+++	+++	+	--	--	+	+++
Gasolines	+	+++	--	--	--	+	+++	+++	--	--	--	--	+++
High Temperatures	+	+	--	--	+++	+++	--	+	+	+++	+++	+	+++
Low Temperatures	+	+	+	+	+	+	+	--	+	+	+	+++	+

*Hypalon and Viton are registred trade-mark of Dupont

-	poor
--	unsatisfactory
---	unsuitable
+	fair to good
++	good
+++	excellent

These ratings are to be used as a general guide only;
ask to our technical department for specific information.

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Technical information
Flexibility and bending radius

Flexibility and minimum bending radius are important factors in hose design and selection, if it is known that the hose will be subjected to sharp bendings in normal use. When bent at a sharper angle than suggested minimum bending radius, the hose may kink or flatten in the cross-section.
The reinforcement may also be unduly stressed or distorted and the hose life thereby shortened.

Adequate **flexibility** means the hose should be able to conform to the smallest anticipated bend radius without overstress. The minimum bending radius is specified for each hose in this catalogue. This is the radius in which the hose can be in service without damage or appreciably shortening life. The radius is measured on the inside part of the curvature:

Formula to determine minimum hose length given hose bending radius and degree of bend required:

$$\frac{A}{360°} \times 2\pi \times BR = L$$

Where:
A = Angle of bend
BR = Given bend radius of hose
L = Minimum length of hose to make bend (Bend must be made equally along this portion of hose length).

Example: to make **90° bend** at the hose's rated minimum bend radius of **1200mm**.
Thus, the minimum hose lenght should be approximately 1884 mm. The bend radius used must be equal to or greater than the rated minimum bend radius. Bending the hose to a smaller bending radius than minimum, may kink the hose and cause damage and early failure.

$$\left\{\left[\left(\frac{90}{360°}\right) \times 2 \times 3{,}14\right] \times 1200\right\} = 1884\text{mm}$$

Heat resistance

High temperatures may cause an aging effect on rubber and plastic materials, which may become hard and brittle. The higher the temperature, the faster the aging. The normal life span of a hose is given at a temperature of 10°C .

Max working temperature in air of some rubber compounds:

Type of rubber	12 months	1 month	1 week
NR	50°C	70°C	100°C
EPM	80°C	120°C	150°C
SBR	70°C	90°C	130°C
CR	70°C	100°C	150°C
NBR	70°C	100°C	140°C

Do not use this chart as a guide for the service temperature of the hose, as temperatures over 120°C affect the resistance of the reinforcement materials, reducing the bursting pressure of the hose.

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Technical information
Oil resistance - Definition and degree

Rubber hoses are used to convey petroleum products both, in the crude and refined stages.
The aromatic content of refined gasoline is often adjusted to control the octane rating.
The presence of aromatic hydrocarbons in this fuel, generally has greater effect on rubber compounds than aliphatic hydrocarbons.

Aromatic materials in contact with rubber tend to soften it and reduce its physical properties.
For long lasting service, the buyer of gasoline hoses should inform the hose manufacturer of the aromatic content of the fuel, so that proper tube compounds can be recommended for the specific application.

The effects of oil on rubber vary on a range of factors, including:

- **the type of rubber compound;**
- **the composition of the oil;**
- **the temperature and time of exposure.**

Rubber compounds can be classified by their degree of oil resistance, based on their physical properties after exposure to a standard test with the specific fluid.
In this RMA classification, the rubber samples are submerged in ASTM n.3 oil at +100°C for 70 hours.
(See ASTM Method D-471 for a detailed description of the oil and the testing procedure).
As a guide for oil transfer hose, the compound classes and corresponding descriptions are listed hereunder.

Physical properties after exposure to oil

Oil resistance	Volume change maximum %	Tensile strength retained %
Class A very good	+25	-20
Class B good	+65	-50
Class C medium	+100	-60

Electrical properties

The most common classification of rubber hoses, with reference to their electrical characteristics is

A **Conductive**, with resistance < 10^6 Ohm/Meter.
B **Antistatic**, with resistance between 10^6 and 10^9 Ohm/Meter.
C **Insulating**, with resistance > 10^9 Ohm/Meter.

The electrical characteristics of a rubber hose tend to change with use and age.
Please contact our technical department for any special requirement you may have.

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Orders and delivery terms

Delivery quantity

For technical or manufacturing reasons, or because of length specifications or packing units, it may not always be possible to supply exact order quantities. We therefore reserve the right to vary the amount supplied and inoviced by10% of the amount order.

Mandrel built hoses
standard length: 40m
delivered length: ≥ 36m

Because of different production needs it might be possible that also lenghts shorter than 36m are delivered. Moreover, it could happen for customised orders that up to 10% of the deliveries are sent in short lengths from 10-35,9m at the same price.

In general length tolerances to EN ISO 1307:2006 are executed.

If different delivered lengths are required in individual cases, this must be clarified at the time of order. Unless otherwise agreed the above rules are applied.

Packing

Standard packaging for rolled goods made on steel mandrels:
- Packaged as single items.

The following options are also availble on request:
Stretch-wrapped and/or banded in pallets;
Unpackaged;
Packed in wooden boxes;
Packed in cardboard half shells;
On drums.

Minimum order quantity for manufacture items

Depending on product type, size and manufacturing technology, certain minimum order must be observed for manufactured items.

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Technical information

Tolerances, inner diameter

Mandrel Hoses (according to UNI EN ISO 1307/2006)

I.D. mm	I.D. (mm) Tolerance	O.D. (mm) Tollerance
da 3,3 a 10	± 0,40	± 0,50
da 10,1 a 20	± 0,60	± 0,80
da 20,1 a 25	± 0,80	± 1,00
da 25,1 a 40	± 1,00	± 1,20
da 40,1 a 63	± 1,20	± 1,40
da 63,1 a 90	± 1,40	± 1,60
da 90,1 a 127	± 1,60	± 2,00
da 127,1 a 152	± 2,00	± 2,00
da 152,1 a 203	± 2,50	± 2,50
da 203,1 a 315	± 3,00	± 3,00

Long length Hoses (according to UNI EN ISO 1307/92)

I.D. mm	I.D. Tolerance (mm)	O.D. Tollerance (mm)
da 3 a 6	± 0,40	± 0,50
da 6,1 a 20	± 0,60	± 0,80
da 20,1 a 25	± 0,80	± 1,00

Longitudinal tolerance

for specified cut lengths of hose

Length mm	Tolerance ±mm
up to 305	± 3.18
306 up to 610	± 4.80
611 up to 915	± 6.40
916 up to 1220	± 9.50
1221 up to 1830	± 12.70
from 1831	± 1%

Longitudinal tolerance

for hose built to length

Length m	Tolerance ±mm
up to 1.50	25.4
from 1.51 up to 3.00	38.0
from 3.01 up to 6.00	64.0
from 6.01	1%

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Technical information
Care, maintenance and storage

Hoses have a limited service life, and the user must be aware of signs of impending failure, particularly when the conditions of service include high working pressures and/or conveyance or containement of hazardous materials.

The periodic inspection and testing procedures described below, provide a schedule of specific measures which represent a minimum level of user actions to detect signs of hose deterioration or loss of performance, to prevent malfunctions or failures.

Safety warning: Follow the manufacturer's recommended procedures for the care, maintenance and storage of hoses. If not, it may results in its failure to perform in the intended way, and may result in possible damage to the property and serious injury. General instructions are also described for the proper storage of hose to minimize deterioration from exposure to the elements or environments which are known to be harmful to rubber products.
Proper storage conditions can enhance and extend substantially the utlimate life of the products.

General care and Maintenance of Hose

Hoses should not be subjected to any form of abuse in service. They should be handled with reasonable care.
Hoses should not be dragged over sharp or abrasive surfaces unless they are specifically designed for such service.
Attention should be taken to protect the hoses from severe end loads, for which the hose or hose assemblies were not designed. Hose should be used at or below its rated working pressure;
any change in pressure should be made gradually so as to not subject the hose excessive surge of pressure.
Hose should not be kinked or run over by vehicles.
When handling large size hose, dollies should be used whenever possible; slings or handling Scuff rings, properly placed, should be used to support heavy hoses in oil suction and discharge service, e.g. ship to shore.

General Test and Inspection Procedures fo Hose

Inspections and hydrostatic tests should be made periodically to determine if a hose is suitable for continued service.
A visual inspection of the hose should be made to detect damaged covers, kinks, bulges or soft spots which might indicate broken or displaced reinforcement. The couplings or fittings should be closely examined and, if there is any sign of the coupling detatching from the hose, the hose should be removed from service immediately.
The periodic inspection should include hydrostatic test for one minute at 150% of the recommended working pressure of the hose.
During the hydrostatic test, the hose should be laid straight, not coiled or in a kinked position.
Water is the usual test medium and, after the test, the hose may be flushed with alcohol to remove traces of moisture.
A regular schedule of testing should be pursued and inspection records duly filed.

Safety warning: before conducting any pressure test on hose, safety measures must be taken, to ensure the security of the personnel performing the test and to prevent any possible damage to the property.
Only trained personnel, using proper tools and procedures should conduct any pressure tests.

1. Air and/or any other compressible gas must never be used as test media, because of the explosive action of the hose should a failure occur. Such a failure might result in possible damage to property and serious physical injury.
2. Air should be removed from the hose by draining it through an outlet valve while the hose is being filled with the test medium.

Technical information
Care, maintenance and storage

3. To perform properly a pressure test, the hose must be restrained by placing steel rods or straps close to each end, every 10 foot approx. (3m) intervals along its length, to keep the hose from “whipping” if failure occurs.

4. The steel rods or straps are to be anchored firmly to the structure, but in such a manner that the hose will be free to move.

5. The outlet end of the hose should be protected in a way so that the fitting is contained in the case of failure or fitting blow-out.

6. Safety measures must be taken to protect testing personnel if failure occurs.

7. Testing personnel must never stand in front of or behind the hose, while pressure tested.

When liquids such as gasoline, oil, solvent, or other hazardous fluids are used as the test fluid, precautions must be taken to protect against fire or other damage, should the hose fails, and test liquids be splashed in the surrounding area.

Storage

Rubber hose products in storage can be affected adversely by temperature, humidity, ozone, sunlight, oils, solvents, corrosive liquids and fumes, insects, rodents and radioactive materials.

The appropriate method for storing hose depends to great extent on its size (diameter and length), the quantity to be stored and the way in which it is packaged.
Hose should not be piled or stacked to such an extent that the weight of the stack creates distorsions to the hoses stored at the bottom. Since rubber hoses vary considerably in size, weight and length, it is not pragtical to establish definite recommendations on this point.
Hoses having a very thin wall, will not support as much load as a hose having a thicker wall or a hose with wire reinforcement. Hose which are shipped in coils or bales, should be stored horizontally.

Whenever feasible, rubber hoses should be stored in their original shipping containers, especially when such containers are wooden crates or cardboard cartons which provide protection against the deterioration effetc of oils, solvents and corrosive liquids; shipping containers also have function to protect against ozone and sunlight.

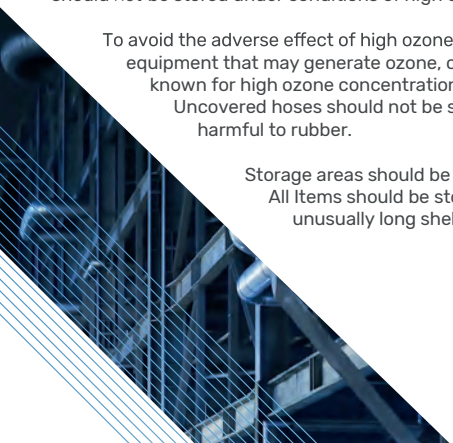
Certain rodents and insects can damage rubber hoses, and adequate protection from them should be provided.

Cotton jacketed hose should be protected against fungal growths if the hose is to be stored for long periods in humid conditions.

The ideal temperature for the storage of rubber products ranges from 50 °F to 70 °F (10-21 °C) with a maximum limit of 100 °F (38 °C). If stored below 32 °F (0 °C), some rubber products become stiff and would require warming before being placed in service. Rubber products should not be stored near sources of heat, such as radiators, base heaters, etc. should not be stored under conditions of high or low humidity.

To avoid the adverse effect of high ozone concentration rubber hoses should not be stored near electrical equipment that may generate ozone, or be stored for any long period in geographical areas known for high ozone concentration. Exposure to direct or reflected sunlight should also be avoided. Uncovered hoses should not be stored under fluorescent or mercury lamps which generate waves harmful to rubber.

Storage areas should be relatived cool and dark, and free of dampness and mildew. All Items should be stored on first-in, first-out basis. since even under the best conditions, an unusually long shelf life could cause deterioration of certain rubber products.



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Flexible material handling hoses

Suitable for conveying concrete, plaster, grout, sand and gypsum.
Designed for sandblast or plaster machines. Available up to 100 bar (1500 psi)

AB 001 PARARUB
Abrasion resistant hose

AB 003 LAYFLAT
Layflat bulk materials discharge

3 Bar

AB 010 LAYFLAT
Bulk materials delivery hose

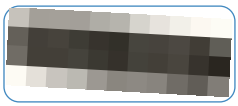
10 Bar

AB 111 DELCEM
Bulk materials premium quality delivery hose

10 Bar

AB 410 ASPICEM
S&D Cement hose

10 Bar

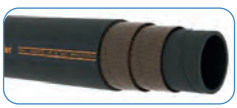


AB 410 S
S&D Cement hose thick wall

10 Bar

AB 422 ASPICEM BULK
S&D Cement hose

20 Bar



AB 120 Betoncino
Plaster spraying hose

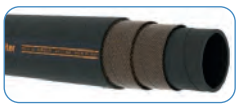
20 Bar

AB 140 Betoncino
Plaster spraying hose

40 Bar

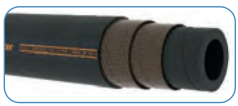
AB 110/70
Sandblast hose

10 Bar



AB 112/50
Sandblast hose

12 Bar

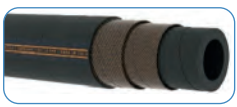


AB 112 ABRAREX
Sandblast premium hose

12 Bar

AB 119 HD
Sandblast hose

20 Bar



AB 116 ICEBLAST
Dry Ice blasting hose

16 Bar

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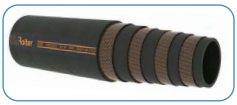
Flexible material handling hoses

Suitable for conveying concrete, plaster, grout, sand and gypsum.
Designed for sandblast or plaster machines. Available up to 100 bar (1500 psi)

AB 385
Concrete pumping hose
85 Bar

AB 399
Concrete pump placement hose
100 Bar

AB 985 MULTITEX
Concrete pumping hose
85 Bar



AB 285 Textile
Concrete pumping hose
85 Bar

AB 500 ABRAVAC
Abrasion resistant suction hose

AB 505 ABRAREX
Abrasion resistant premium hose
5 Bar

ADG 600
Abrasion suction hose
5 Bar

ABR 500 BULK
Abrasion suction hose
5 Bar

AB 406 VACUTRUCK
Bulk materials S&D hose
6 Bar

AB 603
Sand recovery hose
3 Bar

AB 235 HEVEA
Thick wall abrasion resistant
35 Bar

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AB 001 PARARUB

ABRASIVE MATERIALS LAYFLAT

Application: no pressure discharge hose, for silos and hoppers, for abrasive materials as sand, gravel, cement.
Feature: natural rubber tubing for abrasive material with no pressure.
Note: available in the version HEVEA® Premium red or yellow hose range, with superior abrasion resistance, or in the ACCORDION version, with embedded wide pitch spiral wire.

Temperature range: -40°C/ +70°C
Tube: brown, smooth NR rubber compound Hardness Shore A 45 +/-5
Cover: brown, smooth cloth impression NR rubber compound, Shore A 45 +/-5
Other colors available on request.

Internal Diameter		Wall thickness	External Dia	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*Kg/m*	*(max) m*
25	1	5	35	0,48	40
35	1 3/8	5	45	0,63	40
45	1 3/4	5	55	0,81	40
51	2	5	61	0,80	40
76	3	5	86	1,27	40
90	3 1/2	5	100	1,49	40
102	4	5	112	1,67	40
114	4 1/2	5	124	1,87	16
127	5	5	137	2,07	16
140	5 1/2	5	150	2,27	16
152	6	5	162	2,47	16
160	6 5/16	5	170	2,70	16
168	6 5/8	5	178	2,82	16
203	8	5	213	3,25	16
220	8 5/8	5	230	3,50	16
254	10	5	264	4,06	10
273	10 3/4	5	283	4,35	10
305	12	5	315	4,85	10
320	12 3/4	5	330	5,10	10
357	14	5	367	5,64	12
405	16	5	415	6,43	6
457	18	5	467	7,30	6
510	20	5	520	3,50	6
609	24	5	619	11,20	6

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AB 003 LAYFLAT
BULK MATERIALS LAYFLAT

Application: used for discharge of wet and dry cement, sand and gravel.
Feature: lightweight, it can be rolled flat for transport and storage.
Standards: ISO 1307. Other colours, pressure and sizes available on request.

Temperature range: -40°C/ +70°C
Safety factor: 3,15 : 1
Tube: black, smooth, highly abrasion resistant antistatic tube.
Reinforcement: synthetic plies reinforcement.
Cover: black smooth cloth finish, synthetic, antistatic rubber cover, abrasion, ozone and weather resistant.
Marking: continuous transfer tape: "ROITER® AB 003 BULK MATERIALS LAYFLAT - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Weight approx	Coil length
mm	***inch***	***mm***	***mm***	***(max) bar***	***Kg/m***	***(max) m***
102	4	5	112	4	1,69	40
127	5	5,5	138	4	2,86	40
152	6	6	164	4	3,46	40
203	8	6	215	3	4,66	40
254	10	6	266	3	5,75	40
305	12	6	317	3	6,90	16
355	14	7	369	3	7,95	16
405	16	7	419	2	9,90	6
457	18	7	471	2	11,00	6
510	20	7	524	2	12,30	6

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AB 010 LAYFLAT
BULK MATERIALS

Application: used for discharge of highly abrasive bulk materials, such as cement, sand and gravel, dry or wet. ideal for conveying granulated materials.
Feature: universal medium duty lay-flat delivery hose with highly abrasion resistant tube. It can be rolled flat for transport and storage.
Standards: ISO 1307. Other colours, working pressure and sizes available on request. Also available with tan gum tube and with **polyurethane tube**, with antistatic copper wires.

Temperature range: -40°C/ +70°C
Safety factor: 3 : 1
Tube: black, smooth, highly abrasion resistant antistatic tube.
Reinforcement: synthetic plies reinforcement.
Cover: black smooth cloth finish, synthetic, antistatic rubber cover, abrasion, ozone and weather resistant.
Marking: continuous transfer tape: "ROITER® AB 010 BULK MATERIALS LAYFLAT - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Weight approx	Coil length
mm	***inch***	***mm***	***mm***	***(max) bar***	***Kg/m***	***(max) m***
51	2	6	63	10	1,10	40
63,5	2 1/2	6	75,5	10	1,40	40
76	3	6	88	10	1,80	40
90	3 1/2	7	104	10	2,50	40
102	4	7	116	10	2.85	40
127	5	7,5	142	10	3,95	40
152	6	8	168	10	4,50	40
203	8	10	223	10	7,20	40
254	10	10	274	10	9,00	40

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AB 111 DELCEM
CEMENT DELIVERY HOSE

Application: premium silo hose with excellent tube quality, for filling and discharging silos and silo vehicles. Delivery hose for highly abrasive media such as cement, sand, gravel, granulated materials, pellets, etc.
Feature: very long service life due to abrasion resistant tube. Average wear of the tube 50 mm^3 (according to DIN ISO 4649:2014). hardwall construction.
Especially flexible and therefore easy to handle.
Standard/approval: exceeds EN ISO 3861:2008.

Temperature range: -35°C / +80°C.
Safety factor: 3,15 : 1
Tube: synthetic black rubber, highly abrasion resistant, electrically conductive, smooth. Alternatively pure NR Para blond, honey color available.
Reinforcement: synthetic plies reinforcement.
Cover: synthetic rubber, black, resistant to ozone and weather, cloth impression.
Marking: continuous transfer tape, "ROITER® AB 111 DELCEM - WP 10 BAR - MADE IN ITALY".

Internal Diameter		Wall thickness	External Diameter	Working Pressure	Bending Radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
51	2	7	65	10	300	1,66	40
63,5	2 1/2	8	79,5	10	400	2,05	40
76	3	8	92	10	500	2,20	40
80	3 1/4	8	96	10	650	2,60	40
90	3 1/2	8	106	10	750	2,67	40
102	4	8	118	10	850	3,20	40
127	5	8	143	10	950	4,00	40
140	5 1/2	8	156	10	1000	4,40	40
152	6	10	172	10	1100	5,20	40
168	6 5/8	11	190	10	1200	6,30	40

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AB 410 ASPICEM
S&D CEMENT HOSE

Application: mandrel built, suction and delivery hose for highly abrasive media such as cement, stones, sand, gravel, granulated and powder materials, sludge, etc.
Feature: long service life due to abrasion resistant tube. Average wear of the tube 50 mm^3 (according to DIN ISO 4649:2017). Vacuum resistant up to -0,9 Bar.
Good flexibility and therefore easy to handle.
Standard/approval: exceeds EN ISO 3861:2008.

Temperature range: -40°C / +70°C.
Safety factor: 3 : 1
Tube: synthetic rubber, black, abrasion resistant, electrically conductive, smooth.
Reinforcement: synthetic plies reinforcement, steel wire helix embedded. On request additional copper wires.
Cover: synthetic rubber, black, resistant to ozone and weather, antistatic, cloth impression.
Electrical properties: conductive tube and cover, $R<10^6$ Ohm/m.
Marking: continuous transfer tape, "ROITER® AB 410 ASPICEM - WP 10 BAR - MADE IN ITALY".

Internal Diameter		Wall thickness	External Dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
51	2	7	65	10	300	1,95	40
63	2 1/2	8	79	10	380	2,45	40
76	3	8	92	10	400	3,30	40
90	3 1/2	8	106	10	150	3,80	40
102	4	8	118	10	600	4,75	40
127	5	10	147	10	700	8,50	40
152	6	11	174	10	800	11,00	40
203	8	13	229	10	1100	16,20	40
254	10	14	282	10	1220	19,90	40

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AB 410 S
S&D CEMENT HOSE
THICK WALL

Application: mandrel built, thick wall, suction and delivery hose for extremely abrasive media such as cement, stones, sand, gravel, granulated and powder materials, sludge, etc.
Feature: mandrel built, thick wall, suction and delivery hose for extremely abrasive media such as cement, stones, sand, gravel, granulated and powder materials, sludge, etc.
Standard/approval: exceeds EN ISO 3861:2008.

Temperature range: -40°C / +70°C.
Safety factor: 3 : 1
Tube: high wall thickness synthetic rubber, black, abrasion resistant, electrically conductive, smooth.
Reinforcement: synthetic plies reinforcement, steel wire helix embedded. On request additional copper wires.
Cover: synthetic rubber, black, resistant to ozone and weather, antistatic, cloth impression.
Electrical properties: conductive tube and cover, R<10⁶ Ohm/m.
Marking: continuous transfer tape, "ROITER® AB 410 S - WP 10 BAR - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
50	2	11	72	10	300	2,15	40
63	2 1/2	11	85	10	380	2,70	40
76	3	11	98	10	400	3,63	40
90	3 1/2	11	112	10	450	4,18	40
102	4	11	124	10	600	5,22	40
127	5	12	151	10	700	9,35	40
152	6	12	176	10	800	12,10	40
203	8	15	233	10	1100	17,82	16
254	10	16	286	10	1220	21,80	16

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AB 422 ASPICEM BULK
HOSE S&D CEMENT

Application: premium hose with excellent tube quality used for suction and delivery of abrasive products, highly abrasive media such as cement, stones, sand, gravel, granulated and powder materials, sludge, etc.
Feature: very long service life due to abrasion resistant tube. Average wear of the tube 50 mm^3 (according to DIN ISO 4649:2014). Especially flexible, and therefore easy to handle. Antistatic hose construction and inter-woven copper wire to prevent the build-up of static electricity.
Standard/approval: exceeds EN ISO 3861:2008.

Temperature range: -35°C / +80°C.
Safety factor: 3 : 1
Tube: synthetic rubber, black, highly abrasion resistant, electrically conductive, smooth.
Reinforcement: synthetic plies reinforcement, steel wire helix, double copper wires.
Cover: synthetic rubber, black, resistant to ozone and weather, antistatic, cloth impression.
Electrical properties: conductive tube and cover, $R<10^6$ Ohm/m.
Marking: continuous transfer tape, "ROITER® AB 422 ASPICEM BULK - WP 20 BAR - MADE IN ITALY".

ATEX

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
25	1	6,5	38	20	155	1,20	40
32	1 1/4	6	44	20	190	1,35	40
38	1 1/2	7	52	20	230	1,50	40
51	2	7	65	20	305	2,00	40
63	2 1/2	8	79	20	380	2,60	40
76	3	8	92	20	400	3,30	40
90	3 1/2	9	108	20	540	4,20	40
102	4	10	122	20	750	6,60	40
127	5	10	147	20	850	9,20	40
152	6	11	174	20	1100	11,25	40

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AB 120

PLASTER HOSE- Betoncino 20 Bar

Application: for conveying grout, screed, plaster and gypsum in compact flow process. Used on Spritz-Beton machines for tunnel construction and public works.
Feature: very long service life due to the abrasion resistant quality of the rubber tube and cover. Average wear of the tube 70 mm^3 (according to DIN ISO 4649:2014). The compact reinforcement package provides a very stable cross section, making the hose highly kink resistant and also offering high pressure resistance. Antistatic construction prevents the build-up of static electricity.
On request: with harder rubber quality and higher pressure resistance - with steel wire braid - with fire resistant cover - with several cover colours.

Temperature range: -35°C / +80°C.
Safety factor: 3 : 1
Tube: synthetic rubber, black, abrasion resistant, antistatic, smooth.
Reinforcement: synthetic plies reinforcement.
Cover: synthetic rubber, black, resistant to ozone and weather, antistatic, cloth impression.
Marking: continuous transfer tape: "ROITER® AB 120 PLASTER/GROUT HOSE - WP 20 BAR - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
40	1 3/4	10	60,0	20	400	1,80	40
50	2	10	70,0	20	500	2,25	40
65	2 1/2	10	85,0	20	650	2,65	40

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AB 140

PLASTER HOSE - Betoncino 40 Bar

Application: for conveying grout, screed, plaster and gypsum in compact flow process.
Feature: very long service life due to the abrasion resistant quality of the rubber tube and cover. Average wear of the tube 70 mm^3 (according to DIN ISO 4649:2014).
The compact reinforcement package provides a very stable cross section, making the hose highly kink resistant, and also offering high pressure resistance. Antistatic construction prevents the build-up of static electricity.
On request: - with harder rubber quality and higher pressure resistance - with steel wire braid - with fire resistant cover - with several cover colours.

Temperature range: -35°C / +80°C.
Safety factor: 3 : 1
Tube: synthetic rubber, black, abrasion resistant, antistatic, smooth.
Reinforcement: synthetic plies reinforcement.
Cover: synthetic rubber, black, resistant to ozone and weather, antistatic, wrapped fabric finish.
Marking: continuous transfer tape: "ROITER® AB 140 PLASTER HOSE - WP 40 BAR - MADE IN ITALY".

Internal Diameter		Wall thickness	External Dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	6	31	40	190	0,75	40
25	1	6	37	40	250	0,85	40
32	1 1/4	6	44	40	320	1,10	40
35	1 3/8	7	49	40	350	1,40	40
38	1 1/2	8	54	40	380	1,50	40
51	2	8,5	68	40	500	2,20	40
65	2 1/2	10	85	40	650	3,60	40
76	3	11	98	40	720	4,00	40
102	4	12	126	40	850	5,30	40

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AB 110/70
SANDBLAST HOSE

Application: shot blast hose with unique tube quality, for conveying highly abrasive media such as quartz sand, steel shot, corundum, glass, etc.
Feature: extremely long service life due to the high abrasion resistant quality of the tube. Average wear of the tube 70 mm³ (according to DIN ISO 4649:2014). Antistatic construction prevents the build-up of static electricity.
Standard/approval: exceeds EN ISO 3861:2008.

Temperature range: -35°C / +80°C.
Safety factor: 3,5 : 1
Tube: synthetic rubber, black, highly abrasion resistant, electrically conductive, smooth.
Reinforcement : synthetic plies reinforcement.
Cover: synthetic rubber, black, resistant to ozone and weather, antistatic, cloth impression.
Marking: continuous transfer tape, "ROITER® AB 110/70 SANDBLAST - WP 10 BAR - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
13	1/2	7	27	10	130	0,47	40
19	3/4	7	33	10	190	0,62	40
19	3/4	8	35	10	200	0,62	40
25	1	7	39	10	250	0,85	40
32	1 1/4	8	48	10	320	1,08	40
38	1 1/2	8	54	10	380	1,24	40
40	1 5/8	10	60	10	450	1,83	40
51	2	10	71	10	500	2,20	40

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AB 112/50
SANDBLAST HOSE

Application: high quality shot blast hose with unique tube quality, for conveying highly abrasive media such as quartz sand, steel shot, corundum, glass, etc.
Feature: extremely long service life due to the high abrasion resistant quality of the tube. Average wear of the tube 50 mm^3 (according to DIN ISO 4649:2014). Antistatic construction prevents the build-up of static electricity.
Standard/approval: exceeds EN ISO 3861:2008.

Temperature range: -35°C / +80°C.
Safety factor: 3,5 : 1
Tube: synthetic rubber, black, highly abrasion resistant, electrically conductive, smooth.
Reinforcement: synthetic plies reinforcement.
Cover: synthetic rubber, black, resistant to ozone and weather, antistatic, cloth impression.
Marking: continuous transfer tape, "ROITER® AB 112/50 SANDBLAST WP 12 BAR - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
13	1/2	7	27	12	130	0,47	40
16	5/8	7	30	12	160	0,55	40
19	3/4	7	33	12	190	0,62	40
25	1	7	39	12	250	0,80	40
32	1 1/4	8	48	12	320	1,08	40
38	1 1/2	8	54	12	380	1,35	40
51	2	10	71	12	500	2,20	40
60	2 3/8	10	80	12	560	2,53	40
80	3 1/4	11,5	103	12	610	4,18	40
90	3 1/2	11,5	113	12	720	4,50	40
102	4	12	126	12	860	5,17	40

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AB 112 ABRAREX
SANDBLAST HOSE

Application: premium shot blast hose with unique tube quality, for conveying highly abrasive media such as quartz sand, steel shot, corundum, glass, etc.
Feature: extremely long service life due to the high abrasion resistant quality of the tube. Average wear of the tube 36 mm^3 (according to DIN ISO 4649:2014). Antistatic construction prevents the build-up of static electricity.
Standard/approval: exceeds EN ISO 3861:2008.

Temperature range: -35°C / +80°C.
Safety factor: 3,5 : 1
Tube: synthetic rubber, black, highly abrasion resistant, electrically conductive, smooth.
Reinforcement: synthetic plies reinforcement.
Cover: synthetic rubber, black, resistant to ozone and weather, antistatic, cloth impression.
Marking: continuous transfer tape, "ROITER® AB 112 ABRAREX SANDBLAST - WP 12 BAR - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
13	1/2	7	27	12	150	0,55	40
19	3/4	7	33	12	200	0,65	40
25	1	7	39	12	250	0,80	40
32	1 1/4	8	48	12	320	1,08	40
32	1 1/4	9	50	12	340	1,25	40
38	1 1/2	9	56	12	380	1,45	40

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AB 119 HD
SANDBLAST HOSE

Application: Heavy duty sand blast hose with superior tube quality, for conveying highly abrasive media such as quartz sand, steel shot, corundum, glass, etc.
Feature: extremely long service life due to the high abrasion resistant quality of the tube. Average wear of the tube 60mm3 (according to DIN ISO 4649:2014). Antistatic Construction prevents the build-up static electricity,
Standard/approval: exceeds EN ISO 3861:2008 - ISO 1307-BS 4649.

Temperature range: -40°C / +80°C.
Safety factor: 3 : 1
Tube: rubber compound, black, highly abrasion resistant, electrically conductive, smooth.
Reinforcement: synthetic plies reinforcement.
Cover: synthetic rubber, black, resistant to ozone and weather, antistatic, cloth impression.
Marking: continuous transfer tape, "ROITER® AB 119 HD SANDBLAST WP 20 BAR - MADE IN ITALY".

Internal Diameter		Wall thickness	External Dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
13	1/2	7	27	20	130	0,47	40
16	5/8	7	30	20	160	0,58	40
19	3/4	7,5	34	20	190	0,70	40
25	1	7,5	40	20	250	0,85	40
32	1 1/4	8	48	20	320	1,18	40
35	1 3/8	8	51	20	360	1,55	40
38	1 1/2	9	56	20	400	1,85	40
40	1 5/8	9	58	20	420	1,92	40
51	2	10	71	20	520	2,40	40
65	2 3/8	11	82	20	620	2,90	40
76	3 1/4	12,5	105	20	800	4,40	40

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AB 116 ICEBLAST
DRY ICE BLAST HOSE

Application: iceblast hose, is a low temperature resistant discharge hose, for use with dry ice application. This hose is developed especially to handle cold temperature materials and has a very abrasion resistant tube and cover. The high strength textile reinforcement will ensure a safe and long service life for harsh application.
Feature: extremely long service life due to the high abrasion resistant quality of the tube, according to DIN ISO 4649:2014.

Temperature range: -55°C / +60°C.
Safety factor: 3 : 1
Tube: Black, highly abrasion resistant NR lining, resistant to solid carbon dioxide.
Reinforcement: synthetic plies reinforcement.
Cover: Black, NR cover, resistant to ozone, weather, and abrasion, fabric impression.
Marking: continuous transfer tape, "ROITER® AB 116 ICEBLAST - WP 16 BAR - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
13	1/2	6	25	16	130	0,35	40
16	5/8	6	28	16	160	0,45	40
19	3/4	6	31	16	190	0,54	40
25	1	6	37	16	220	0,64	40

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AB 385
CONCRETE PUMPING - 85 Bar

Application: high performance hose, developed for concrete placement by means of special pumps. Suitable for transferring highly abrasive materials such as concrete, cement and mortar.
Feature: long life and easy to handle due to the special structure and to the abrasion resistant tube. Flexible and easy to manage, with good kink resistance due to a special hose design. Suitable for reverse pumping, for easy cleaning.
Notice: the hose conforms to EN 12001:2010. Assemblies on request, crimped "full flow"hardened couplings, compatible with VICTAULIC or major concrete pump manufacturers.

Temperature range: -35°C/ +80°C
Safety factor: 2 : 1
Tube: black synthetic rubber, abrasion resistant, electrically antistatic, smooth. Highly resistant to the abrasive action of the concrete.
Reinforcement: steel cord, wrapped
Cover: black synthetic rubber, resistant to ozone and weather, antistatic, cloth impression, wrapped finish.
Marking: continuous transfer tape: "ROITER® AB 385 CONCRETE PUMPING - WP 85 BAR - MADE IN ITALY" and embossed tape

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
51	2	10	71	85	300	2,90	40
65	2 1/2	11	87	85	350	3,50	40
76	3	11	98	85	400	4,80	40
80	3 1/4	12	104	85	420	5,15	40
102	4	12	126	85	550	7,20	40
127	5	13	153	85	650	9,30	40
152	6	15	182	85	800	12,50	40

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AB 399
CONCRETE PUMP & PLACEMENT - 100 Bar

Special premium hose designed and developed for extreme operating conditions for conveying products at high pressure.
Application: high pressure concrete pump hose for boom transfer, placement and for piling rigs. Pneumatic discharge of cement and minerals. Pumping of slurry and drilling mud (not oil-laden). Grouting of mortar, cement or concrete.
Feature: long service life due to highly abrasion resistant tube. Flexible and easy to handle, with good kink resistance due to a special hose design. Suitable for reverse pumping and for easy cleaning.
Notice: the hose conforms to EN 12001:2010. Assemblies on request, crimped "full flow" hardened couplings, compatible with VICTAULIC or major concrete pump manufacturers.

Temperature range: -35°C/ +80°C
Safety factor: 2 : 1
Tube: black synthetic rubber, abrasion resistant, electrically antistatic, smooth. Highly resistant of the abrasive action of the concrete.
Reinforcement: high performance steel wrapped cord.
Cover: black synthetic rubber, resistant to ozone and weather, antistatic, cloth impression, wrapped finish.
Marking: continuous transfer tape: "ROITER® AB 399 CONCRETE PUMPING - WP 100 BAR - MADE IN ITALY" and embossed tape.

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
51	2	10	71	100	400	3,20	40
65	2 1/2	11	87	100	425	4,20	40
76	3	12	100	100	450	5,00	40
102	4	13	128	100	700	8,00	40
127	5	14	155	100	850	11,50	40
152	6	17	186	100	1000	13,50	40

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AB 985 MULTITEX
CONCRETE PUMPING - 85 Bar

Unique new design, combines the mechanical resistance of steel cord with flexibility and lightness advantages of high tensile fabrics.
Application: high pressure concrete pump hose specifically designed for transfer and placement. Structurally designed to be lighter and more flexible than other steel reinforcement hoses. Suitable for pneumatic discharge of high abrasive media such as concrete, cement and minerals, pumping of slurry and drilling mud. Grouting of mortar, cement or concrete.
Feature: the hose is lighter and more flexible by design, has high strength and kink resistance. Cover has high adhesion and extra layer protection, preventing exposure of wire braid. Cover has impact and damage protection features for longer service life. Assemblies on request.
Notice: the hose conforms to EN 12001 & ISO 1307 Standard.

Temperature range: -35°C/ +80°C
Safety factor: 2 : 1
Tube: abrasion resistant synthetic rubber, black, smooth.
Reinforcement: multiple layers of high tensile fabrics and steel cord.
Cover: synthetic rubber, black, resistant to ozone and weather, fabric impression.
Marking: continuous transfer tape: "ROITER® AB 985 MULTITEX - CONCRETE PUMPING WP 85 BAR - MADE IN ITALY" and embossed tape: "1250 PSI/85 BAR- SAFETY FACTOR 2 : 1 - EN 12001"

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
38	1 1/2	10	58	85	300	2,50	40
51	2	10	71	85	400	3,15	40
65	2 1/2	11	87	85	420	3,80	40
76	3	12	100	85	480	4,50	40
90	3 1/2	13	118	85	560	4,75	40
102	4	14	130	85	750	5,50	40
127	5	14	155	85	900	6,35	40

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AB 296

CONCRETE PUMPING - 85 Bar

TEXTILE REINFORCEMENT - SEPARATED PLIES

Application: High pressure concrete pump hose for boom transfer and placement. Pneumatic discharge of cement and minerals. Pumping of slurry and drilling mud (not oil-laden). Grouting of mortar, cement, or concrete.
Feature: lighter in weight than steel reinforced hoses. Abrasion resistant hose to give extended service life. Flexible, easy to handle. Robust construction to withstand heavy compressive loads and guarantee maximum safety. Construction eliminates kinking and allows easy cleaning by reverse pumping.
Notice: Assemblies on request, crimped "full flow"hardened couplings, compatible with VICTAULIC or major concrete pump manufacturers.

Temperature range: -35°C/ +80°C
Safety factor: 2 : 1
Tube: black rubber compound, abrasion resistant, smooth. Highly resistant to the abrasive action of the concrete.
Reinforcement: multiple layers or synthetic textile,
Cover: black synthetic rubber, resistant to ozone and weather, antistatic, cloth impression, wrapped finish.
Marking: continuous transfer tape: "ROITER® AB 285 CONCRETE PUMPING -WP 85 BAR - MADE IN ITALY" and embossed tape.

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
51	2	12,5	76	85	300	3,20	40
65	2 1/2	13	91	85	400	3,90	40
76	3	14	104	85	480	4,50	40
90	3 1/2	14	118	85	580	5,10	40
102	4	14	130	85	650	5,70	40
127	5	15	157	85	800	7,90	40
152	6	16	184	85	1000	9,50	40

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AB 500 ABRAVAC
ABRASION RESISTANT SUCTION HOSE

Application: flexible suction hose on vacuum cleaning trucks, for use on site. Excellent for abrasive materials such as waste and sand.
Feature: medium duty hose, thanks to its low weight, high flexibility and good wear resistance, it is particularly suitable fo use as the front part of a suction pipe that must be maneuvered by hand.
On request is supplied with soft ends.

Temperature range: -35°C/ +80°C
Safety factor: 3,15 : 1
Tube: synthetic rubber black smooth, anti-static abrasion resistant.
Reinforcement: wrapped textile reinforcements, steel spiral.
Cover: synthetic rubber, black, corrugated, anti-static, cloth impression. Wear and weather resistant.
Marking: continuous transfer tape: "ROITER® AB 500 ABRAVAC - MADE IN ITALY ".

Internal dia		Wall thickness	External dia	Vacuum	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*%*	*(min) mm*	*Kg/m*	*(max) m*
51	2	6	63	90	270	2,15	40
76	3	7	90	90	450	2,30	40
102	4	7	116	90	550	3,75	40
127	5	7	141	90	800	4,50	40
152	6	7	166	90	900	5,50	40
203	8	8	219	90	1000	8,75	40

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AB 505 ABRAREX
ABRASION RESISTANT SUCTION HOSE

Application: heavy duty material handling hose, especially designed for severe pressure or suction service.
Features: strong hose, thanks to its high flexibility and premium wear resistance, is particularly suitable fo use with heavy materials and where wear resistance is imperative.
Average wear of the tube 36 mm^3 (according to DIN ISO 4649:2014).

Temperature range: -35°C/ +90°C
Safety factor: 3 : 1
Tube: synthetic rubber black smooth, anti-static abrasion resistant.
Reinforcement: wrapped textile reinforcements, steel spiral.
Cover: synthetic rubber, black, corrugated, anti-static, cloth impression. Wear and weather resistant.
Marking: continuous transfer tape: "ROITER® AB 505 ABRAREX - WP 5 BAR - MADE IN ITALY ".

Internal dia		Wall thickness	External dia	Working Pressure	Vacuum	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*%*	*(min) mm*	*Kg/m*	*(max) m*
51	2	6	63	5	90	300	2,25	40
76	3	7	90	5	90	450	2,80	40
102	4	8	118	5	90	550	3,95	40
127	5	8	143	5	90	800	4,80	40
152	6	8	168	5	90	900	5,90	40
203	8	9	221	5	90	1000	7,90	20

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ADG 600
ABRASION RESISTANT SUCTION HOSE

Application: heavy duty material handling hose, especially designed for flexible truck suction hose for vacuum abrasive media e.g. stones, rubbish, mud.
Feature: strong hose, thanks to its high flexiblity and premium wear resistance, is particularly suitable for use with heavy materials and where wear resistance is imperative. Upon request both sides can be supplied with cuffed ends.

Temperature range: -25°C/+70°C
Safety factor: 3:1
Tube: synthetic rubber black smooth compound antistatic abrasion resistant. Brown para on request.
Reinforcement: wrapped textile reinforcements, double steel spiral, conductive copper wires
Cover: synthetic rubber, black semi-corrugated, cloth impression. Wear and weather resistant.
Marking: continuous transfer tape: "ROITER® ADG 600 - WP5 BAR - "MADE IN ITALY"

Internal dia		Wall thickness	External DIA	Vacuum Resistance	Bending radius	Weight approx	Coil lenght
mm	*inch*	*mm*	*mm*	*(max) %*	*(min) mm*	*Kg/m*	*(max) m*
203	8	14	231	90	400	14,50	12
203	8	16,5	236	90	410	18,62	12
254	10	18,5	291	90	510	23,90	12
305	12	19,5	344	90	610	30,97	12

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ABR 500 BULK
ABRASIVE VACUUM

Application: flexible and light yet strong hose used for the extraction of abrasive bulk materials. Expecially useful for applications requiring flexibility and light weight. Suitable for vacuum cleaning systems in stone quarries, and steel industries. ABR 500 Bulk hose is usually manufactured with soft cuff ends.
Feature: Due to the low weight and high flexibility, this hose is suitable for use at the front end of exhaust lines that needs to be handled manually.
Vacuum resistance: up to -0,9 bar .

Temperature range: -40°C / +80°C
Tube: brown smooth para rubber
Reinforcement: textile wrapped,synthetic fabric with wire helix reinforcements and copper wires.
Cover: black corrugated, synthetic rubber, ozone, abrasion and weather resistant, wrapped finish
Marking: continuous tape :
"ROITER® ABR 500 BULK - MADE IN ITALY"

Dia In & Out	Vacuum	Length of soft ends	Bending radius	Working Pressure	Weight approx	Coil length
mm	*%*	*mm*	*mm*	*(max) bar*	*Kg/m*	*(max) m*
40x49	90	50	125	2	0,60	40
51x60	90	70	150	2	0,75	40
63x74	90	80	200	2	0,90	40
76x85	90	100	260	2	1,10	40
102x116	90	120	300	2	1,98	40
114x125	70	140	400	1	2,30	40

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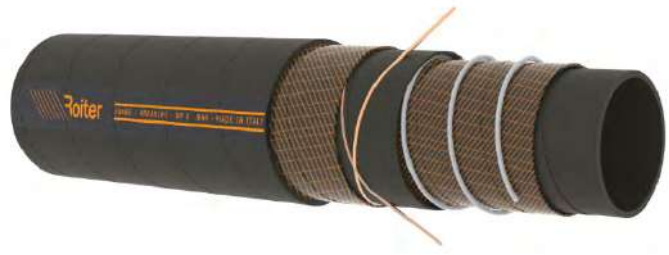
AB 406 VACUTRUCK
"CASSETTE" HOSE

Premium hose with excellent tube quality used for vacuum on cleaning trucks and for filling and discharging silos and vehicles.
Application: extraction and transport of highly abrasive media such as stones, sand, gravel, granulated and powder materials, sludge, etc. Used on hose reels and "cassette" applications.
Feature: very long service life due to abrasion resistant tube. Average wear of the tube 36 mm^3 (according to DIN ISO 4649:2014).
Especially flexible and therefore easy to handle. Antistatic hose construction and inter-woven copper wire to prevent the build-up of static electricity.
Standard/approval: exceeds EN ISO 3861:2008.

Temperature range: -35°C / +80°C.
Safety factor: 3,15 : 1
Tube: synthetic rubber, black, highly abrasion resistant, electrically conductive, smooth.
Reinforcement: synthetic plies reinforcement, steel spiral, conductive copper wires.
Cover: synthetic rubber, black, resistant to ozone and weather, antistatic, cloth impression.
Electrical properties: conductive tube and cover, $R<10^6$ Ohm/m
Marking: continuous transfer tape, "ROITER® AB 406 VACUTRUCK - WP 6 BAR - MADE IN ITALY".

ATEX



Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
51	2	7	65	6	200	2,04	40
63	2 1/2	7	77	6	300	2,72	40
76	3	7	90	6	350	2,90	40
90	3 1/2	7	104	6	400	3,36	40
102	4	8	118	6	500	4,03	40
110	4 5/16	8	126	6	530	4,20	40
114	4 1/2	8	130	6	540	4,42	40
127	5	8	143	6	600	6,10	40
152	6	10	172	6	800	7,80	40
203	8	13	229	6	1100	13,10	40

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AB 603
SAND RECOVERY

Application: A lightweight and very flexible hose, specially designed for sand suction in shipyards and sandblasting operations. It can also handle gravel, dry cement, granulated materials, plastic pellets.
Standards: mandrel built acc. to EN ISO 1307.
Other colours, pressures and sizes available on request. Also available with tan gum tube or with Polyurethane Tube

Temperature range: -40°C / +70°C.
Safety factor: 3 : 1
Tube: synthetic rubber, black, highly abrasion resistant, electrically conductive, smooth.
Reinforcement: synthetic plies reinforcement, double steel wire helix embedded, antistatic copper wires.
Cover: synthetic rubber, black, resistant to ozone and weather, antistatic, fabric impression, semicorrugated.
Electrical properties: conductive tube and cover, R<10^6 Ohm/m.
Marking: continuous transfer tape, "ROITER® AB 603 SAND RECOVERY - WP 3 BAR - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	***inch***	***mm***	***mm***	***(max) bar***	***(min) mm***	***Kg/m***	***(max) m***
38	1 1/2	6	50	3	200	1,90	40
51	2	6	63	3	280	2,00	40
63,5	2 1/2	6,5	76,5	3	380	2,20	40
76	3	7	90	3	450	2,50	40
90	3 1/2	7	104	3	500	3,25	40
102	4	7	116	3	550	3,75	40
127	5	8	143	3	800	4,80	40
152	6	8	168	3	900	5,90	40

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AB 235 HEVEA®
THICK WALL HOSE

Application: hose for extremely abrasive media such as stones, sand, gravel, granulated and powder materials, mineral recovering in sampling operations.
Feature: mandrel built, thick wall, suction and delivery hose.
HEVEA® PREMIUM RED: Our specialty HEVEA® Premium Red hose range incorporates slurry and mining hose, dredge hose, vacuum hoses for dust, sand hoses, are manufactured using state of the art automated mandrel hose production lines, ensuring the hose construction that is both robust and reliable using only the best superior and unique HEVEA® red rubber materials.
Standard/approval: exceeds EN ISO 3861:2008.

Temperature range: -30°C / +80°C.
Safety factor: 3 : 1
Tube: thick wall thickness HEVEA® rubber, red color,with extremely high abrasion resistant, smooth.
Reinforcement: synthetic plies reinforcement, on request with steel wire helix embedded. On request additional copper wires.
Cover: synthetic rubber compound, black, resistant to ozone and weather, conductive, cloth impression.
Electrical properties: conductive d cover, R<10^6 Ohm/m.
Marking: continuous transfer tape, "ROITER® AB 435 HEVEA - WP 35 BAR - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
50	2	13	76	35	210	3,00	40
63	2 1/2	14	91	35	290	4,20	40
76	3	15	106	35	310	5,00	40
102	4	16	134	35	420	7,10	40

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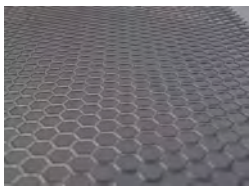
SPECIAL INTERNAL LININGS
FOR ABRASIVE MATERIALS

Due to our extensive great experience, we have developed specific materials with superior abrasion resistance. These types of materials, can be used as an inner lining of virtually any ROITER AB hose.

HEVEA® PREMIUM RED: Our specialty HEVEA® Premium Red hose range incorporates slurry and chemical mining hose, dredge hose, vacuum hoses for dust, sand and stones. HEVEA® hoses are manufactured using state of the art automated mandrel hose production lines, ensuring the hose construction that is both robust and reliable using only the best superior red or yellow para rubber material.
Raw Materials: We believe that quality raw materials are the key to manufacturing premium specialty hose. When we design and custom build all our hoses, you can rely on receiving a superior wear resistant hose created with the highest quality rubber compounds, reinforcement cords and end connections. Wear liner composition is critical to the performance of your hose. With more than 40 years of rubber manufacturing experience, we have the expertise to select the best composition for your specified application.
Our extensive knowledge of wear performance compounds ensures that our products are the best available on the market. Our hoses are created using traditional reinforcement materials such as nylon or polyester. High tensile aramid fibre reinforcement is also used in our highly customised large bore hose designs.
Reinforcement cord materials are selected to complement our designs during the engineering process.



CERAMID Severe applications tend to consume traditional material handling hoses. Traditional Rubber hose needs regular in-service inspection and maintenance, is subject to abrupt failure, creates unscheduled downtime and requires frequent replacement. For these harsh applications, CERAMID hose provides virtually maintenance-free service life, often longer than traditional rubber material handling hose.
CERAMID is a Custom Made Hose with a breakthrough construction that incorporates a unique inner liner of flexible, highly abrasion resistant hexagonal ceramic tiles embedded in abrasion resistant rubber. It is suitable for compressed air and vacuum systems conveying highly abrasive materials such as ceramic powders, coal powders, dry cement, fiberglass, fly ash and raw minerals in harsh applications such as carbon injection, ceramic/glass works, manufacturing or processing of insulating materials, mines, quarries, power generation facilities and steel works. CERAMID hose assemblies, for a superior investment in value and productivity, CERAMID hose is the perfect choice for severe applications.

POLYURETHANE Polyurethane liners are particularly abrasion-resistant and durable. Compared to conventional hose liners, they are characterized by increased resistance (abrasion resistance, pressure resistance), better temperature resistance and other improved characteristics. Due to these properties, PU lined hoses are versatile in the extended medium temperature range. ROITER uses in its polyurethane hoses a special ester and a special ether-polyurethane mixture, which is unique.
Polyurethane liners can bring new life to your operation. These abrasion resistant hose linings, protect internal diameter from prolonged wear and polyurethane, in particular, offers one of the best abrasion resistance available today in the industry. Polyurethane is also chemical resistant and with excellent resistance to oils and fuels. It is great for the transport or movement of sticky materials. With polyurethane, the dirt or sludge, moves easily with minimum resistance. Polyurethane liners are preferred in many transfer situations.

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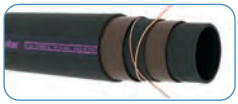
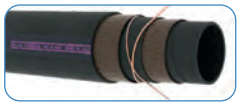
Flexible chemical hoses

Suitable to be used in chemical and pharmaceutical industries,for solvents and acids, paints, varnishes, inks. Also suitable to be used in ATEX environments.

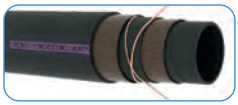


CE 116 EPR
Chemicals discharge hose, EPR
16 Bar

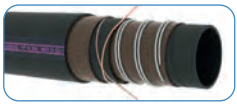
CE 416 EPR
Suction and discharge of chemicals, EPR
16 Bar



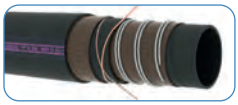
CM 116 CHIMIFLEX
Discharge of aggressive chemicals, EPDM
16 Bar



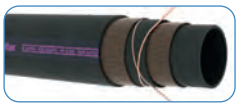
CM 120 CHEMIBLUE
Discharge of AD Blue & Urea Full EPDM
20 Bar



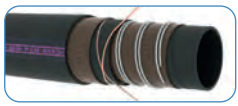
CM 416 SPIRACHIM
Suction and discharge of aggressive chemicals, EPDM
16 Bar



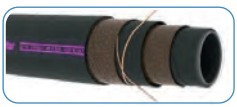
CY 410 HYPALON
Acid S&D chemical hose, HYPALON
10 Bar



CV 116 FKM
Discharge of very aggressive chemicals, FKM tube
16 Bar

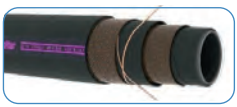


CV 416 FKM
Suction and discharge of very aggressive chemicals, FKM tube
16 Bar

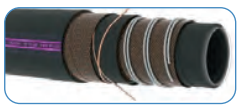


CX 116 PEX
Chemicals discharge hose, Cross-linked PE tube
16 Bar

CX 416 PEX
Chemicals suction and discharge hose, Cross-linked PE tube
16 Bar

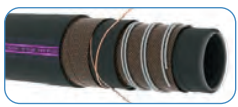


CW 110 UHMW PE
Chemicals discharge hose UHMWPE smooth tube
10 Bar



CW 410 UHMW PE
Chemicals suction and discharge hose UHMWPE smooth tube
10 Bar

CW 416 POLYATEX
Suction and delivery of chemicals and solvents, UHMWPE conductive tube
16 Bar



CW 425 UHMW PE
Chemicals suction and discharge hose UHMWPE smooth tube
25 Bar

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Flexible chemical hoses

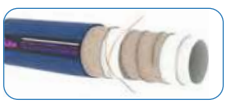
Suitable to be used in chemical and pharmaceutical industries,for solvents and acids, paints, varnishes inks. Also suitable to be used in ATEX environments.

CW 116 UHMW PE
Chemicals discharge hose, UHMWPE smooth tube
16 Bar

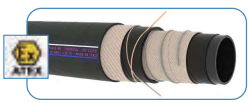
CW 416 UHMW PE
Chemicals suction and discharge hose UHMWPE smooth tube
16 Bar

CW 516 UHMW PE
Chemicals suction and discharge hose UHMWPE corrugated
16 Bar

CW 616 UHMW PE POLYCHEM
Multipurpose suction and delivery semicorrugated chemicals hose UHMWPE smooth tube
16 Bar



FL 416 ROIFLON
Aggressive chemicals S&D hose, PTFE
16 Bar



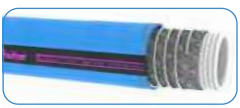
FL 416 BK-ROIFLON AS
Aggressive chemicals S&D hose, PTFE Black Antistatic
16 Bar

DYNAFLUOR® DF1
Smooth bore S&D PTFE liner, metal braid
25 to 60 Bar

DYNAFLUOR® DF6
Smooth bore PTFE liner, metal braid + Wire spiral
25 to 60 Bar

DYNAFLON® DF5-RC
Convoluted PTFE liner, SS braid + Wire spiral. Rubber cover
10 to 60 Bar

DYNAFLON® DF5-SI
Convoluted PTFE liner SS braid + wire spiral. Silicone cover
25 to 60 Bar



SMOOTHLINE®
Smooth inner, Convoluted outer PTFE hose, SS braid + spiral wire
15 to 80 Bar

SMOOTHLINE® TEX
Smooth inner, Convoluted outer PTFE hose, textile reinforcements
15 to 80 Bar

Roiter®
Via Grandi 5, 45100 Rovigo (Ro) - Italy
T. +39 0425 37 76 11 - F. +39 0425 410 911

CE 116 EPR
ACID DELIVERY

Application: delivery hose that handles a wide range of acids and chemicals also in concentrated form, as well as industrial water, sea water and chemical fertilizers.
Standard/approval: EN ISO 1307
ATTENTION: the temperature of the medium must be lower than its boiling point. Please refer to the Roiter® resistance list or, in case of doubt, contact our technical dept. Continuous use at peak values reduces the service life.
To ensure the assembly is leakproof, hoses must be tested according to EN 12115:2011.

Temperature range: -40°C/+120°C depending on medium. Steam cleaning without pressure up to 130°C / max. 30 min.
Safety factor: 4 : 1
Tube: black, smooth EPR rubber.
Reinforcement: high tensile synthetic textile and antistatic copper wires.
Cover: black, smooth, fabric finish synthetic rubber, abrasion, acids, ozone and weather resistant.
Marking: continuous transfer tape: "ROITER® CE116 EPR - ACID DELIVERY - WP 16 BAR - MADE IN ITALY"

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
13	1/2	6	23	16	90	0,39	40
19	3/4	6	31	16	125	0,58	40
25	1	6	37	16	150	0,71	40
32	1 1/4	6	44	16	175	1,00	40
38	1 1/2	6,5	51	16	225	1,37	40
51	2	8	67	16	275	1,83	40

Roiter®
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CE 416 EPR
ACID S&D

Application: suction & delivery hose that handles a wide range of acids and chemicals also in concentrated form, as well as industrial water, sea water and chemical fertilizers.
Standard/approval: EN ISO 1307
ATTENTION: the temperature of the medium must be lower than its boiling point.
Please refer to the Roiter® resistance list or, in case of doubt, contact our technical dept.
Continuous use at the peak values reduces service life.
To ensure the assembly is leakproof, hoses must be tested according to EN 12115:2011.

Temperature range: -40°C / +120°C depending on medium. Steam cleaning without pressure up to 130°C / max. 30 min.
Safety factor: 4 : 1
Tube: black, smooth EPR rubber.
Reinforcement: synthetic high tensile textile, steel wire helix. Antistatic copper wires.
Cover: black, smooth, fabric finish, synthetic rubber cover, abrasion, ozone and weather resistant.
Marking: continuous transfer tape "Roiter® CE 416 EPR - ACID S&D - WP 16 BAR - MADE IN ITALY"

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
25	1	6	37	16	150	0,98	40
32	1 1/4	6	44	16	175	1,33	40
38	1 1/2	6,5	51	16	225	1,72	40
51	2	8	67	16	380	2,66	40
63	2 1/2	8	79	16	450	3,50	40
76	3	8	92	16	600	4,11	40
102	4	9	120	16	800	5,60	40

Roiter®
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CM 116 CHIMIFLEX
CHEMICALS EPDM - 16 BAR

Application: discharging of a wide range of chemicals (see chemical resistance chart), sea and industrial water.
Standard/approval: EN 12115:2011, TRBF 13112:1192
ATTENTION: the temperature of the medium must be lower than its boiling point. Please refer to the Roiter® resistance list or, in case of doubt, contact our technical dept.
Continuous use at the peak values reduces the service life.
To ensure the assembly is leakproof, hoses must be tested according to EN 12115:2011.

Temperature range: -40°C / + 120°C depending on medium. Steam cleaning without pressure up to 130°C max. 30 min.
Safety factor: 4 : 1
Tube: chemical resistant black smooth EPDM rubber
Reinforcement: high tensile synthetic textile and antistatic copper wires
Cover: black, smooth fabric finish synthetic rubber cover, abrasion, ozone and weather resistant
Marking: continuous transfer tape: "ROITER® CM116 CHIMIFLEX - EPDM - WP 16 BAR - EN 12115- Ω/T -MADE IN ITALY"

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
13	1/2	5	23	16	90	0,38	40
19	3/4	6	31	16	125	0,56	40
25	1	6	37	16	150	0,75	40
32	1 1/4	6	44	16	175	0,96	40
38	1 1/2	6,5	51	16	225	1,32	40
51	2	8	67	16	275	1,76	40
63	2 1/2	8	79	16	300	2,40	40
76	3	8	92	16	350	2,80	40
102	4	8	118	16	450	3,80	40

Roiter®
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CM 120 CHEMIBLUE

FULL EPDM UREA & ADBLUE® HOSE

Application: discharging hose specifically engineered for loading and unloading of ADBlue additive for Fuel engines and Urea.
ATTENTION: the temperature of the medium must be lower than its boiling point. Please refer to the Roiter resistance list or, in case of doubt, contact our technical departement.
Continuous use at the peak values reduces the service life. To ensure the assembly is leakproof, hoses must be tested according to EN 12115:2011.

Temperature range: -40°C / + 120°C depending on medium. Steam cleaning without pressure up to 130° C / max. 30 min.
Safety factor: 4 : 1
Tube: chemical resistant black smooth EPDM rubber
Reinforcement: high tensile synthetic textile and antistatic copper wires
Cover: black, smooth fabric finish EPDM rubber compound, resistant to abrasion, ozone and weather
Marking: continuous transfer tape: "ROITER® CM 120 CHEMIBLUE - EPDM - WP 20 BAR - MADE IN ITALY"

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
13	1/2	5	23	20	90	0,40	40
19	3/4	6,5	32	20	125	0,56	40
25	1	6,5	38	20	150	0,87	40
32	1 1/4	6	45	20	175	0,96	40
38	1 1/2	6,5	51	20	225	1,32	40
51	2	7	65	20	275	1,76	40
63	2 1/2	7	77	20	300	2,40	40
76	3	8	92	20	350	2,80	40
102	4	8	118	20	450	3,80	40

Roiter®
Via Grandi 5, 45100 Rovigo (Ro) - Italy
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CM 416 SPIRACHIM

CHEMICALS EPDM - 16 BAR

Application: suitable for suction & delivery a wide range of chemicals, acids, alkalis, salts, organic compounds (alcohols, esters, ketones, etc.) incl. aromatic substances, according to our chemical resistance list.
Standard/approval: EN 12115:2011, TRbF 131/2:1992.
ATTENTION: Please refer to the Roiter® resistance list, in case of doubt, contact our technical dept. Continuous use at the peak values reduces the service life.
To ensure the assembly is leakproof, hoses must be tested according to EN 12115:2011.

Temperature range: -40°C / + 120°C depending on medium.Steam cleaning without pressure up to 130°C / 30min.
Safety factor: 4 : 1
Tube: black smooth EPDM, rubber.
Reinforcement: high tensile synthetic textiles, steel wire helix, antistatic copper wires.
Cover: Synthetic rubber, black, abrasion, weather, ozone, fabric finish.
Marking : continuous transfer tape: "ROITER® CM 416 "ROITER CM 416 SPIRACHIM- CHEMICAL S&D EPDM -WP 16 BAR-EN 12115 Ω/T - MADE IN ITALY" and continuous embossed tape according to EN 12115:2011

Internal Dia		Wall thickness	External Dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	6	31	16	125	0,72	40
25	1	6	37	16	150	0,95	40
32	1 1/4	6	44	16	175	1,28	40
38	1 1/2	6,5	51	16	225	1,66	40
51	2	8	67	16	275	2,5	40
63	2 1/2	8	79	16	300	3,36	40
76	3	8	92	16	350	3,92	40
102	4	8	118	16	450	5,29	40

Roiter®
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CY 410

CHEMICAL HYPALON S&D

Application: specially designed for suction and discharge of many industrial chemicals and particularly suited for products containing high aromatics. Designed for all applications where chemical transfes are involved.
Standard/approval: EN ISO 1307/ EN 12115:2011
To ensure the assembly is leakproof, hoses must be tested according to EN 12115:2011.

Temperature range: -35°C / +95°C depending on medium. Steam cleaning without pressure up to 130°C / max. 30 min.
Safety factor: 4 : 1
Tube: black, smooth, HYPALON tube.
Reinforcement: high tensile synthetic textile, steel wire helix. Antistatic copper wires.
Cover: black, smooth fabric finish, Hypalon rubber cover, abrasion, ozone and weather resistant
Marking: Continuous transfer tape, lilac letters: "ROITER® CY 410 -ACID S&D - WP 10 BAR -EN 12115 - Ω/T MADE IN ITALY

Internal dia		Wall thickness	External Dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	6	31	10	95	0,74	40
25	1	6	37	10	125	1,02	40
32	1.1/4	6	44	10	160	1,28	40
38	1.1/2	6,5	51	10	190	1,50	40
51	2	8	67	10	250	2,15	40
63	2.1/2	8	79	10	300	2,76	40
76	3	8	92	10	350	3,30	40
102	4	9	120	10	450	4,60	40

Roiter®
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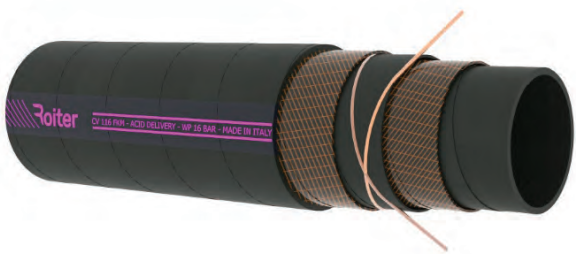
CV 116 FKM
ACID DELIVERY

Application: specifically designed for handling many industrial chemicals and particularly suited for products containing high aromatics, up to 100%. Designed for all application where high temperatures are involved.
Standard/approval: EN ISO 1307 - EN 12115:2011
ATTENTION: the temperature of the medium must be lower than its boiling point.
Please refer to the Roiter® resistance list or, in case of doubt, contact our technical department
Continuous use at peak values reduces the service life.
To ensure the assembly is leakproof, hoses must be tested according to EN 12115:2011.

Temperature range: -25°C / +120°C depending on medium. Steam cleaning without pressure up to 130°C/max. 30min.
Safety factor: 4 : 1
Tube: black, smooth, FKM tube.
Reinforcement: High tensile synthetic textile. Antistatic copper wires.
Cover: black, smooth (fabric finish), synthetic rubber cover, abrasion, ozone and weather resistant.
Marking: continuous transfer tape:
"ROITER® CV 116 FKM- ACID DELIVERY- WP 16 BAR - EN 12115 Ω/T - MADE IN ITALY".



Internal dia		Wall thickness	External Dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	6	31	16	125	0,74	40
25	1	6	37	16	150	1,02	40
32	1.1/4	6	44	16	175	1,28	40
38	1.1/2	6,5	51	16	225	1,50	40
51	2	8	67	16	275	2,15	40
63	2.1/2	8	79	16	300	2,76	40
76	3	8	92	16	350	3,30	40
102	4	9	120	16	450	4,60	40

Roiter®
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CV 416 FKM
ACID - S&D

Application: specially designed for suction and discharge of many industrial chemicals and particularly suited for products containing high aromatics, up to 100%. Designed for all applications where high temperatures are involved.
Standard/approval: EN ISO 1307/ EN 12115:2011
ATTENTION: the temperature of the medium must be lower than its boiling point.
Please refer to the Roiter® resistance list or, in case of doubt, contact our technical dept.
Continuous use at peak values reduces the service life.
To ensure the assembly is leakproof, hoses must be tested according to EN 12115:2011.

Temperature range: -25°C / +120°C depending on medium. Steam cleaning without pressure up to 130°C / max. 30 min.
Safety factor: 4 : 1
Tube: black, smooth, FKM tube.
Reinforcement: high tensile synthetic textile, steel wire helix. Antistatic copper wires.
Cover: black, smooth fabric finish, synthetic rubber cover, abrasion, ozone and weather resistant.
Marking: continuous transfer tape:
"ROITER® CV 416 FKM- ACID S&D - WP 16 BAR- EN 12115 **Ω/T** - MADE IN ITALY".

Internal dia		Wall thickness	External Dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	6	31	16	125	0,74	40
25	1	6	37	16	150	1,02	40
32	1.1/4	6	44	16	175	1,28	40
38	1.1/2	6,5	51	16	225	1,50	40
51	2	8	67	16	275	2,15	40
63	2.1/2	8	79	16	300	2,76	40
76	3	8	92	16	350	3,30	40
102	4	9	120	16	450	4,60	40

Roiter®
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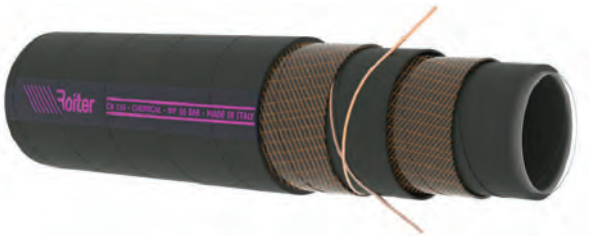
CX 116 PEX

CHEMICALS DELIVERY XLPE
CROSS LINKED PE LINER

Application: suitable for delivery of acids, alkalis, salts, organic compounds (alcohols, esters, ketones, etc.) incl. aromatic substances, chlorinated hydrocarbons and oxidising acids, according to our chemical resistance list.
Feature: extremely low friction coefficient and good abrasion resistance.
Standard/approval: EN 12115:2011, TRbF 131/2:1992.
ATTENTION: the temperature of the medium must be lower than its boiling point. Please refer to the Roiter® resistance list or, in case of doubt, contact our technical dept. Continuous use at peak values reduces the service life. To ensure the assembly is leakproof, the hose must be tested according to EN 12115:2011.
To ensure the assembly is leakproof, hoses must be tested according to EN 12115:2011.

Temperature range: -40°C / +100°C depending on medium. Steam cleaning without pressure up to 130°C / max. 30 min
Safety factor: 4 : 1
Tube: transparent, smooth, PE-X tube.
Reinforcement: high tensile synthetic textile. Antistatic copper wires.
Cover: black, smooth, cloth finish, synthetic rubber, abrasion, acids, ozone and weather resistant.
Marking: continuous transfer tape: "ROITER® CX 116 PEX-CHEMICALS DELIVERY- XLPE - WP 16 BAR - MADE IN ITALY".



Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	6	31	16	190	0,52	40
25	1	6	37	16	225	0,76	40
32	1 1/4	6	44	16	275	0,88	40
38	1 1/2	6,5	51	16	350	1,22	40
51	2	8	67	16	420	1,45	40
63	2 1/2	8	79	16	450	1,88	40
76	3	8	92	16	525	2,61	40

Roiter®
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CX 416 PEX

CHEMICALS S&D XLPE

CROSS LINKED PE LINER

Application: suitable for suction & delivery of acids, alkalis, salts, organic compounds (alcohols, esters, ketones, etc.) incl. aromatic substances, chlorinated hydrocarbons and oxidising acids according to our chemical resistance list.
Feature: extremely low friction coefficient and good abrasion resistance.
ATTENTION: the temperature of the medium must be lower than its boiling point. Please refer to the Roiter® resistance list or, in case of doubt, contact our technical dept. Continuous use at peak values reduces the service life.

Temperature range: -35°C / +100°C depending on medium. Steam cleaning without pressure up to 130°C / max. 30 min.
Safety factor: 4 : 1
Tube: PE-X, transparent, smooth.
Reinforcement: synthetic plies reinforcement. Double steel wire helix. Antistatic copper wires.
Cover: black. smooth fabric finish, synthetic rubber cover, abrasion, acids, ozone and weather resistant.
Marking: continuous transfer tape: "ROITER® CX 416 PEX-CHEMICALS S&D- XLPE - WP 16 BAR - MADE IN ITALY".

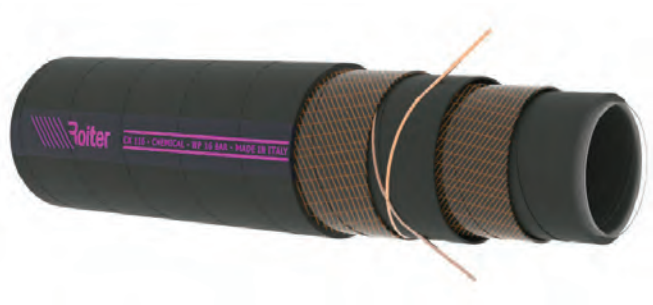
Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	6	31	16	190	0,88	40
25	1	6	37	16	225	1,15	40
32	1 1/4	6	44	16	275	1,33	40
38	1 1/2	6,5	51	16	350	1,65	40
51	2	8	67	16	420	2,30	40
63	2 1/2	8	79	16	450	3,00	40
76	3	8	92	16	525	3,90	40
102	4	8	118	16	675	4,85	40

Roiter®
Via Grandi 5, 45100 Rovigo (Ro) - Italy
T. +39 0425 37 76 11 - F. +39 0425 410 911

CW 110 UHMW PE
CHEMICAL D HOSE

Application: multi purpose hose suitable for delivery of solvents, paints, inks, etc, according to our chemical resistance list.
Feature: extremely low friction coefficient and good abrasion resistance.
Standard/approval: EN 12115:2011, TRbF 131/2:1992.
ATTENTION: the temperature of the medium must be lower than its boiling point. Please refer to the Roiter® resistance list or, in case of doubt, contact our technical dept. Continuous use at peak values reduces the service life.
To ensure the assembly is leakproof, hoses must be tested according to EN 12115:2011.

Temperature range: -35°C / + 100°C depending on medium. Steam cleaning without pressure up to 130°C / max. 30 min
Safety factor: 4 : 1
Tube: transparent, smooth, UHMW PE tube.
Reinforcement: high tensile synthetic textile. Antistatic copper wires.
Cover: black, smooth, cloth finish, synthetic rubber, abrasion, acids, ozone and weather resistant.
Marking: continuous transfer tape: "ROITER® CW 110 UHMWPE - CHEMICALS DELIVERY- WP 10 BAR - MADE IN ITALY".



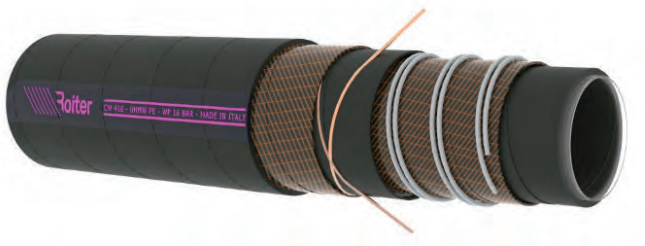
Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	6	31	10	190	0,52	40
25	1	6	37	10	225	0,76	40
32	1 1/4	6	44	10	275	0,88	40
38	1 1/2	6,5	51	10	350	1,22	40
51	2	8	67	10	420	1,45	40
63	2 1/2	8	79	10	450	1,88	40
76	3	8	92	10	525	2,61	40

Roiter®
Via Grandi 5, 45100 Rovigo (Ro) - Italy
T. +39 0425 37 76 11 - F. +39 0425 410 911

CW 410 UHMW PE
CHEMICAL S&D HOSE

Application: multipurpose hose suitable for suction and delivery of solvents, paints, inks, etc, according to our chemical resistance list.
Standard/Approval: EN 12115:2011, TRbF 131/2:1992. Please refer to the Roiter® resistance list or, in case of doubt, contact our technical dept.
Feature: extremely low friction coefficient and good abrasion resistance.
To ensure the assembly is leakproof, hoses must be tested according to EN 12115:2011.

Temperature range: -40°C / + 100°C depending on medium. Steam cleaning without pressure up to 130°C / max. 30 min.
Safety factor: 4 : 1
Tube: UHWMPE, transparent, smooth.
Reinforcement: high tensile synthetic textile, steel helix, crossed copper wires.
Cover: weather and chemical resistant synthetic black rubber, fabric impression. Outer cover can be smooth or corrugated (CW 616).
Marking: continuous transfer tape "ROITER® CW 410 UHMWPE S&D - WP 10 BAR- MADE IN ITALY".



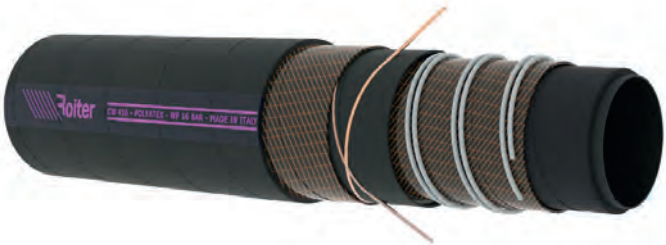
Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	6	31	10	120	0,80	40
25	1	6	37	10	170	1,00	40
32	1 1/4	6	44	10	250	1,20	40
38	1 1/2	6,5	51	10	300	1,45	40
51	2	7,5	66	10	365	2,20	40
63	2 1/2	8	79	10	450	2,85	40
76	3	8	92	10	525	3,53	40
102	4	9	120	10	650	4,80	40

Roiter®
Via Grandi 5, 45100 Rovigo (Ro) - Italy
T. +39 0425 37 76 11 - F. +39 0425 410 911

CW 416 POLYATEX
CHEMICAL S&D HOSE UPE

Application: multipurpose hose suitable for delivery of solvents, paints, inks, etc.) according to our chemical resistance list, in all potentially explosive environments
Feature: extremely low friction coefficient and good abrasion resistance.
Standard/Approval: EN 12115:2011, ATEX Certificate.
Please refer to the Roiter® resistance list or, in case of doubt, contact our technical dept.
Other pressure ratings available on request (10bar/25bar).
To ensure the assembly is leakproof, hoses must be tested according to EN 12115:2011.

Temperature range: -40°C / + 100°C depending on medium. Steam cleaning without pressure up to 130°C / max. 30 min.
Safety factor: 4 : 1
Tube: UHMW PE, black Antistatic smooth
Reinforcement: high tensile synthetic textile. wire steel helix, two crossed copper wires.
Cover: smooth, black synthetic rubber fabric impression, weather and chemical resistant. On request, it is possible to provide in the version **"Semi-corrugated"** outer cover, for a better flexibility.
Electrical propeties: electrical conductive tube and cover, $R<10^6$ Ohm/length; can be used in ATEX areas.
Marking:
POLYATEX - SOLVENT S&D - WP 16 BAR - Ω/T -MADE IN ITALY



ATEX

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	6	31	16	190	0,88	40
25	1	6	37	16	225	1,14	40
32	1 1/4	6	44	16	275	1,33	40
38	1 1/2	6,5	51	16	350	1,64	40
51	2	8	67	16	420	2,30	40
76	3	8	92	16	525	3,90	40
102	4	9	120	16	675	4,85	40

Roiter®
Via Grandi 5, 45100 Rovigo (Ro) - Italy
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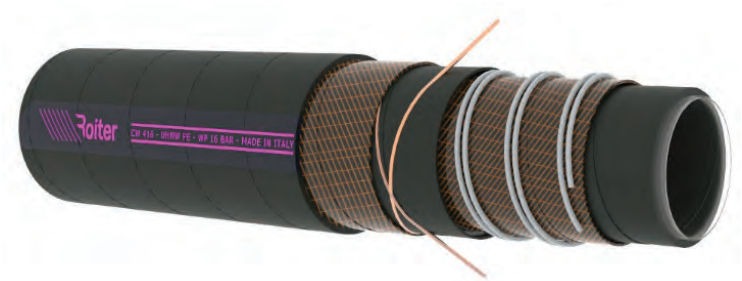
CW 425 UHMW PE
CHEMICAL S&D HOSE

Application: multipurpose hose suitable for heavy duty suction and delivery of solvents, paints, inks, etc, according to our chemical resistance list. Please refer to the Roiter® resistance list or, in case of doubt, contact our technical dept.
Feature: extremely low friction coefficient and good abrasion resistance.
Standard/Approval: Exceed EN 12115:2011, TRbF 131/2:1992.
To ensure the assembly is leakproof, hoses must be tested according to EN 12115:2011.

Temperature range: -40°C / + 100°C depending on medium. Steam cleaning without pressure up to 130°C / max. 30 min.
Safety factor: 4 : 1
Tube: UHWMPE, transparent , smooth.
Reinforcement: high tensile synthetic textile with embedded steel helix, two crossed conductive copper wires.
Cover: weather and chemical resistant synthetic black rubber, fabric impression. Outer cover can be smooth or corrugated.
Marking: continuous transfer tape "ROITER® CW 425 UHMWPE S&D - WP 25 BAR- MADE IN ITALY".



Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	8	35	25	200	1,06	40
25	1	8	41	25	225	1,46	40
32	1 1/4	8	48	25	275	1,73	40
38	1 1/2	8,5	55	25	350	2,02	40
51	2	10	71	25	450	2,86	40
76	3	10	96	25	550	4,74	40
102	4	11	124	25	800	5,80	40

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CW 116 UHMW PE

CHEMICALS DELIVERY

ULTRA HIGH MOLECULAR WEIGHT PE LINER

Application: suitable for delivery of acids, alkalis, salts, organic compounds (alcohols, esters, ketones, etc.) incl. aromatic substances, chlorinated hydrocarbons and oxidising acids according to our chemical resistance list.
Feature: extremely low friction coefficient and good abrasion resistance.
Standard/approval: EN 12115:2011, TRbF 131/2:1992.
ATTENTION: the temperature of the medium must be lower than its boiling point. Please refer to the Roiter® resistance list or, in case of doubt, contact our technical dept. Continuous use at peak values reduces the service life.
To ensure the assembly is leakproof, hoses must be tested according to EN 12115:2011.

Temperature range: -40 / + 100°C depending on medium. Steam cleaning without pressure up to 130°C / max. 30 min.
Safety factor: 4 : 1
Tube: UHWMPE, transparent/white, smooth.
Reinforcement: high tensile synthetic textile. Antistatic copper wires.
Cover: Blue synthetic rubber, smooth, ozone weather and abrasion resistant, wrapped fabric finish.
Black cover or green on request.
Marking: continuous transfer tape:
"ROITER® CW 116 - CHEMICALS UHMWPE - WP 16 BAR - MADE IN ITALY"

Internal dia		Wall thickness	External Dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	6	31	16	190	0,52	40
25	1	6	37	16	225	0,76	40
32	1 1/4	6	44	16	275	0,88	40
38	1 1/2	6,5	51	16	350	1,22	40
51	2	8	67	16	420	1,48	40
63	2 1/2	8	79	16	450	1,88	40
76	3	8	92	16	525	2,24	40
102	4	9	120	16	675	4,40	40

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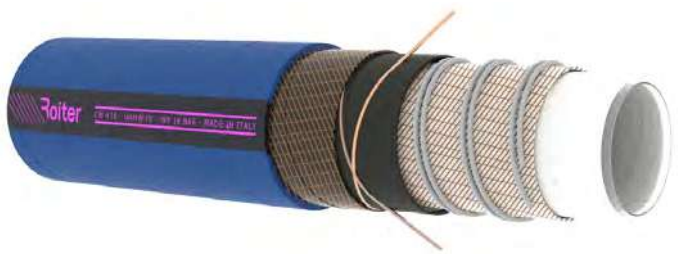
CW 416 UHMW PE

CHEMICALS S&D

ULTRA HIGH MOLECULAR WEIGHT PE LINER

Application: suitable for suction & delivery of acids, alkalis, salts, organic compounds (alcohols, esters, ketones, etc.) incl. aromatic substances, chlorinated hydrocarbons and oxidising acids according to our chemical resistance list.
Feature: abrasion resistance.
Standard/approval: EN 12115:2011, TRbF 131/2:1992.
ATTENTION: the temperature of the medium must be lower than its boiling point. Please refer to the Roiter® resistance list or, in case of doubt, contact our technical dept. Continuous use at peak values reduces the service life.
To ensure the assembly is leakproof, hoses must be tested according to EN 12115:2011.

Temperature range: -40 / + 100°C depending on medium. Steam cleaning without pressure up to 130°C / max. 30 min.
Safety factor: 4 : 1
Tube: UHWMPE, transparent/white, smooth.
Reinforcement: high tensile synthetic textile, steel wire helix, antistatic copper wires.
Cover: Blue synthetic rubber, smooth, ozone weather and abrasion resistant, wrapped fabric finish. Black cover or green on request.
Marking: continuous transfer tape: "ROITER® CW 416 - CHEMICALS UHMWPE - WP 16 BAR - S&D - MADE IN ITALY"



Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	6	31	16	190	0,90	40
25	1	6	37	16	225	1,20	40
32	1 1/4	6	44	16	275	1,50	40
38	1 1/2	6,5	51	16	350	1,75	40
51	2	8	67	16	420	2,50	40
63	2 1/2	8	79	16	450	3,10	40
76	3	8	92	16	525	3,90	40
102	4	9	120	16	675	4,90	40

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CW 516 UHMW PE

CORRUGATED S&D UHMW PE

ULTRA HIGH MOLECULAR WEIGHT PE LINER

Application: excellent chemical resistant hose, corrugated cover, suitable for suction and delivery of nearly every type of acid, chemical, oil and solvent, including alcohols, esters, ketones, etc. and including as well aromatic substances, chlorinated hydrocarbons and oxidising acids, according to our chemical resistance list.

Feature: the special design provides greater flexibility and fully with standards EN 12115:2011, tested to EN 13463-1 / EN 60079-0.

To ensure the assembly is leakproof, hoses must be tested according to EN 12115:2011.

Temperature range: -40 / + 100°C depending on medium. Steam cleaning without pressure up to 130*C / max. 30 min.

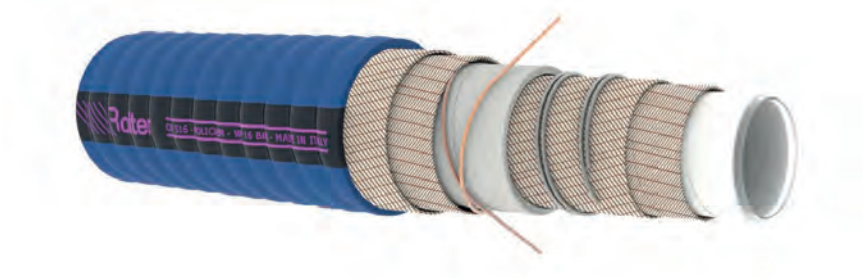
Safety factor: 4 : 1

Tube: UHWMPE, transparent/white, smooth.

Reinforcement: high tensile synthetic textile,steel wire helix, antistatic copper wires.

Cover: synthetic rubber, corrugated, ozone weather and abrasion resistant, wrapped fabric finish. Blue cover or green, on request.

Marking: continuous transfer tape: "ROITER® CW 516 UHMWPE - WP 16 BAR - S&D -MADE IN ITALY"



Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	6	31	16	190	1,10	40
25	1	6	37	16	225	1,50	40
32	1 1/4	6	44	16	275	1,80	40
38	1 1/2	6,5	51	16	350	2,05	40
51	2	8	67	16	420	2,50	40
65	2 1/2	8	79	16	450	3,10	40
76	3	8	92	16	525	4,30	40
102	4	9	120	16	675	5,15	40
152	6	13	178	16	900	8,70	40

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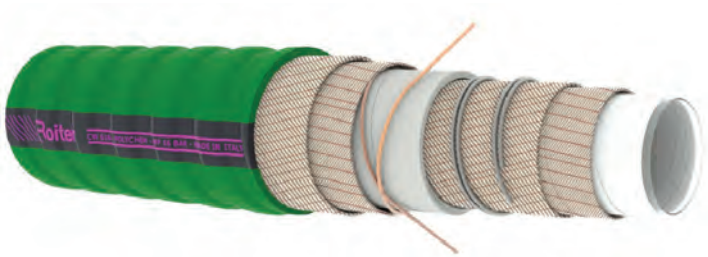
CW 616 UHMW PE POLYCHEM

SEMI-CORRUGATED S&D UHMW PE

ULTRA HIGH MOLECULAR WEIGHT PE LINER

Application: one of the most versatile chemical hoses available, suitable fo suction and delivery of nearly every type of acid, chemical, oil and solvent, including alcohols, esters, ketones, etc. and including as well aromatic substances, chlorinated hydrocarbons and oxidising acids, according to our chemical resistance list. POLYCHEM hose has been used successfully for many years in pharmaceutical and cosmetic industries.
Feature: the special design provides greater flexibility and is fully compliant with standards.EN 12115:2011, tested to EN 13463-1 / EN 60079-0.
To ensure the assembly is leakproof, hoses must be tested according to EN 12115:2011.

Temperature range: -40°C / +100 °C depending on medium. Steam cleaning without pressure up to 130°C / max. 30 min.
Safety factor: 4 : 1
Tube: transparent/white, smooth, UHMWPE tube.
Reinforcement: high tensile synthetic textile reinforcement. Two antistatic copper wires, double steel wire helix.
Cover: green, wrapped fabric finish, synthetic rubber cover, abrasion, acids, ozone and weather resistant. Outer finish is semi-corrugated for better flexibility, and on request can be supplied in black color.
Marking: continuous transfer tape: "ROITER® CW 616 POLYCHEM ACID S&D UHMWPE- WP 16 BAR- MADE IN ITALY".



Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	6	31	16	190	1,10	40
25	1	6	37	16	225	1,50	40
32	1 1/4	6	44	16	275	1,80	40
38	1 1/2	6,5	51	16	350	2,05	40
51	2	8	67	16	420	2,50	40
63	2 1/2	8	79	16	450	3,10	40
76	3	8	92	16	525	4,30	40
102	4	9	120	16	675	5,15	40
152	6	13	178	16	900	8,70	40

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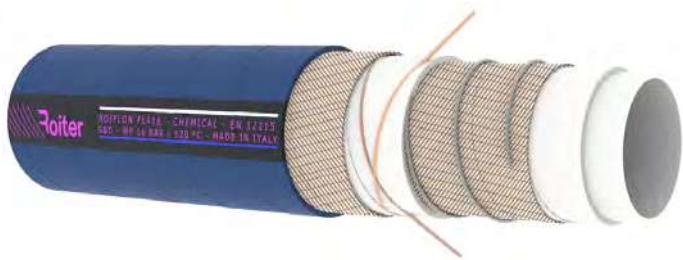
FL 416 ROIFLON
CHEMICALS FLUOROPOLYMER S&D

Application: Universal hose for the safe transfer of a variety of chemical products. Tank truck or storage tank transfer, mixing or blending, ideal for foodstuff, drinking water etc. **ROIFLON FL 416,** includes a wire helix for full suction and crush resistance capability. The fluoropolymer tube has excellent chemical resistance. **ROIFLON FL 416**, is designed for easy cleaning and sterilizing with lose steam. Clean In Place (CIP) methods, may be used. Applications include virtually all chemicals used in a variety of industries. **ROIFLON FL 416**, is a universal hose for all chemical and petrochemical applications, thanks to the total resistance of its liner. Suitable for the transport of acids, alkalis, salts, organic compounds,(alcohols, esters, ketones, etc.) including aromatic substances, chlorinated hydrocarbons and oxidizing acids, as well as foodstuffs and drinking water. **ROIFLON FL 416** is commonly used in cosmetic and in pharmaceutical industries.
Standard/Approval: EN 12115 : 2011 - DIN 2823. Phthalate free - FDA title 21 item 177.1550 Food.
Notice: Please refer to the Roiter® chemical resistance list , or, in case of doubts, contact our technical office.

Temperature range: -40°C to +150°C (-40°F to +300°F) normal service, however the rating is dependent on the specific chemical conveyed.
Safety factor: 4 : 1
Tube: ROIFLON SEAMLESS White fluoropolymer. Backed with Nanotec® to improve the resistance to flex fatigue, close to the couplings.
Reinforcement: Textile reinforcements, Stainless steel wire helix, crossed copper wires.
Cover: Blue EPDM; resistant to ozone and weather, abrasion resistant, fabric impression. Outer finish can be smooth (type FL 416) or alternatively semi corrugated (type FL 616).
Electrical resistance: $<10^6$ Ohm
Marking: Continuous tape: ROITER® FL 416-ROIFLON – SD 150°C – PN 16 – R $<10^6$ OHM – EN 12115 -MADE IN ITALY



Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	6	31	16	190	0,89	30
25	1	6	37	16	225	1,08	30
32	1 1/4	6	44	16	275	1,25	30
38	1 1/2	6	50	16	350	1,70	30
51	2	8	67	16	420	2,15	30
63	2 1/2	8	79	16	450	2,30	30
76	3	8	92	16	525	3,40	30

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FL 416 BK - ROIFLON AS
CHEMICALS FLUOROPOLYMER S&D

Application: Antistatic universal hose for the safe transfer of a variety of chemical products. Tank truck or storage tank transfer, mixing or blending. **ROIFLON AS**, includes a wire helix for full suction and crush resistance capability. The Black fluoropolymer tube has excellent chemical resistance.
ROIFLON AS, is designed for easy cleaning and sterilizing with lose steam. Clean In Place (CIP) methods, may be used. Applications include virtually all chemicals used in a variety of industries. **ROIFLON AS,** is a universal hose for all chemical and petrochemical applications, thanks to the total resistance of its liner. Suitable for the transport of acids, alkalis, salts, organic compounds,(alcohols, esters, ketones, etc.) including aromatic substances, chlorinated hydrocarbons and oxidizing acids, can also be used for foodstuffs. **ROIFLON FL 416** is commonly used in cosmetic and in pharmaceutical industries.
Standard/Approval: EN 12115 : 2011 - DIN 2823.
Phthalate free
Notice: Please refer to the Roiter® chemical resistance list , or, in case of doubts, contact our technical office.

Temperature range: -40°C to + 150°C (-40°F to +300°F) normal service, hovewer the rating is dependent on the specific chemical conveyed.
Safety factor: 4 : 1
Tube: ROIFLON SEAMLESS Black Antistatic fluoropolymer. Backed with Nanotec® to improve the resistance to flex fatigue, close to the couplings.
Reinforcement: Textile reinforcements, Stainless steel wire helix, crossed copper wires.
Cover: Black Epdm, Pin pricked, resistant to ozone and weather, abrasion resistant fabric impression. Outer cover can be smooth (Type FL 416 BK) or alternatively Semi corrugated (Type FL 616 BK)
Electrical resistance: $<10^6$ Ohm
Marking: Continuous tape: ROITER® FL 416BK-ROIFLON AS - SD-150°C -PN 16- R $<10^6$ OHM-EN 12115 **Ω/T** MADE IN ITALY

ATEX

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	6	31	16	190	0,89	30
25	1	6	37	16	225	1,08	30
32	1 1/4	6	44	16	275	1,25	30
38	1 1/2	6	50	16	350	1,70	30
51	2	8	67	16	420	2,15	30
63	2 1/2	8	79	16	450	2,30	30
76	3	8	92	16	525	3,40	30

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DYNAFLUOR® DF 1

PTFE SMOOTH HOSE COATED

Description: DYNAFLUOR® DF 1 hose, is a PTFE smooth bore hose, with a Stainless steel braiding reinforcement. Its tube is available in white virgin or black (electrically conductive) PTFE. Phthalate-free, tested according to 1907/2006/EC (REACH). It complies with FDA 21 CFR 177.1550, USP XXXVI class VI, regulation (EU) no. 1935/2004 and (EU) no 10/2011, 3A Sanitary Standard
Properties: Its smooth hose tube ensures a particularly low level of flow resistance and makes cleaning very easy. The smooth surface allows a perfect cleaning of outer surface as well.

Temperature range:
DF1 RC: -40° C (-40° F) to +150° C (+302° F)
DF1 SI : -73° C (-100° F) to +204° C (+400° F)
Safety factor: 3 : 1
Tube: PTFE (polytetrafluorethylene) white (also available in black antistatic), smooth, phthalate-free. Reinforcement: Stainless steel braiding
Cover: Smooth outer cover for a better cleaning.
DYNAFLUOR® DF 1 RC - Black or Blue Epdm
DYNAFLUOR® DF 1 SI - White Silicone
Applications: Suitable for use in the chemical industry as well as the Food and Pharma industries. Ideal for transfer of edible oil filtering or waste disposal.
Marking: continuous transfer tape "DYNAFLUOR® DF1 XX PTFE - FDA-USP-EU 10/2011 - MADE IN ITALY".

Internal Diameter		External Diameter	Working Pressure	Bending radius
mm	*inch*	*mm*	*(max) bar*	*(min) mm*
5	3/16	10,3	265	40
6,5	1/4	12,4	240	60
8	5/6	14,5	200	70
9,5	3/8	16,2	190	80
10,5	13/32	18,5	170	95
12,7	1/2	20,5	150	110
16	5/8	24	110	150
19	3/4	28	80	200
25	1	35	55	300

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DYNAFLUOR® DF 6

PTFE SMOOTH HOSE + S.S BRAID & HELIX WIRE, COATED

Description: DYNAFLUOR® DF 6 hose, is a PTFE smooth bore lined hose, with a Stainless steel braiding and a stainless steel helix wire Avaible with White virgin or Black antistatic PTFE liner. Cover directly wrapped or extruded on SS braid.
Standards: It complies FDA 21 CFR 177.1550 (21 CFR 178 3297 AS version), USP Classe VI, EN 16643, Reg 1935/2004, EN 10/2011, 3A Sanitary Standards.
Properties: Its smooth PTFE liner ensures a particularly low level of flow resistance and makes cleaning very easy. Thanks to the helix wire reinforcement the hose is resistant to vacuum up to 675 mbar at 20°C.
Construction: PTFE extruded Liner, White or Black antistatic version reinforced with a SS Helix wire and one SS braid

Temperature range:
DF6 CHEM and FOOD: -40° C (-40° F) to +150° C (+302° F)
DF 6 PHARMA: -73° C (-100° F) to +204° C (+400° F)
Safety factor: 5 : 1
Tube: PTFE extruded Liner, White or Black antistatic version
Reinforcement: Stainless steel braiding, stainless steel helix wire
Cover: wrapped directly on the braid
DF 6 CHEM -Black antistatic Epdm, helical wire encapsulated in rubber cover
DF 6 FOOD - Blue Epdm , helical wire encapsulated in rubbercover
DF 6 PHARMA - White Silicone
Applications: Suitable for use in the chemical industry as well as the Food and Pharma industries. Assemblies can be supplied lined **(tafted)** PTFE liner extended through the end fitting, then flared .
Marking: continuous transfer tape "DYNAFLUOR® DF 6 XXX PTFE -FDA-USP-EU 10/2011- EN 16643 MADE IN ITALY" + embossed
* helical wire encapsulated in rubber cover

Internal Diameter		Working Pressure	Bending radius	Vacuum resistance	Coil length
mm	*inch*	*(max) bar*	*(min) mm*	*mbar*	*(max) m*
12	1/2	50	60	675	20
19	3/4	60	80	675	20
25	1	40	120	675	20
32	1.1/4	45	155	675	20
38	1.1/2	40	200	675	20
50	2	25	250	675	20

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DYNAFLON® DF5 RC

PTFE CONVOLUTED HOSE + SS BRAID & HELIX WIRE, RUBBER COATED

Description: DYNAFLON® -RC hose is a PTFE convoluted liner reinforced with a SS Helix wire and one SS Braid. Avaible with virgin or Black antistatic PTFE liner. EPDM Cover directly wrapped on SS braid. It complies FDA 21 CFR 177.1550 (21 CFR 178 3297 AS version), USP Classe VI, EN 16643, Reg 1935/2004, EN 10/2011.

Properties: Its convoluted low profile PTFE liner ensure a particularly low level of flow resistance and make cleaning very easy . High flexibility and resistance to kinking, compared to traditional products .Thanks to the helix wire reinforcement the hose is resistant to vacuum up to 910 mbar at 20°C from ½" to 2" id, and guarantee an optimum pressure resistance. .

Temperature range: : -40°C(-40°F) to + 150°C (+ 302°F)

Safety factor: 5 : 1

Construction: convoluted PTFE extruded Liner, White or Black antistatic version reinforced with a SS Helix wire and one SS braid.

Cover : Black antistatic EPDM wrapped directly on the braid. Avaible on request in Blue or Grey color.

Applications: Suitable for use in the chemical industry as well as the Food and Pharma industries. Assemblies can be supplied "lined" (tafted). Ptfe liner extended through the end fitting, then flared out.

Marking: continuous transfer tape "DYNAFLUOR® DF 5-RC PTFE -FDA-USP- EU 10/2011-EN 16643"

Internal Diameter		Working Pressure	Bending radius	Vacuum resistance	Coil length
mm	*inch*	*(max) bar*	*(min) mm*	*mbar*	*(max) m*
12	1/2	60	55	910	20
19	3/4	60	75	910	20
25	1	40	100	910	20
32	1.1/4	40	120	910	20
38	1.1/2	35	150	910	20
50	2	25	210	910	20
63	2.1/2	16	260	675	20
76	3	14	340	675	20

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DYNAFLON® DF5 SI

PTFE CONVOLUTED HOSE + SS BRAID & HELIX WIRE, SILICONE COATED

Description : DYNAFLON®-SI hose is a PTFE convoluted liner reinforced with a SS Helix wire and one SS Braid. Avaible with White virgin or Black antistatic PTFE liner. Silicone cover directly wrapped on SS braid. It complies FDA 21 CFR 177.1550 (21 CFR 178 3297 AS version), USP Class VI, EN 16643, Reg 1935/2004, EN 10/2011.
Properties: Its convoluted low profile PTFE liner ensure a particularly low level of flow resistance and make cleaning very easy . High flexibility and resistance to kinking compare to traditional products .Thanks to the helix wire reinforcement the hose is resistant to vacuum up to 910 mbar at 20°C from ½" to 2" id and guarantee an optimum pressure resistance.

Temperature range: -73°C(-100°F) to + 204°C + 400°F)
Safety factor: 5 : 1
Construction: convoluted PTFE extruded Liner, White or Black antistatic reinforced with a SS Helix wire and one SS braid
Cover : White or Natural Silicone wrapped directly on the braid.
Applications: Suitable for use in the Food and Pharma industries. Assemblies can be supplied "lined" (tafted). Ptfe liner extended through the end fitting, then flared out.
Marking: continuous transfer tape "DYNAFLON® -SI PTFE - FDA-USP- EU 10/2011-EN 16643 - MADE IN ITALY"

Internal Diameter		Working Pressure	Bending radius	Vacuum resistance	Coil length
mm	*inch*	*(max) bar*	*(min) mm*	*mbar*	*(max) m*
12	1/2	60	55	910	20
19	3/4	60	75	910	20
25	1	40	100	910	20
32	1.1/4	40	120	910	20
38	1.1/2	35	150	910	20
50	2	25	210	910	20

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SMOOTHLINE®

PTFE LINER, SMOOTH INSIDE CORRUGATED OUTSIDE, SS BRAID, COATED

Description: SMOOTHLINE® RC hose is a PTFE smooth bore liner inside /corrugated outside with a SS Braid . Avaible with virgin or Black antistatic PTFE liner. Cover directly wrapped or extruded on SS braid. It complies FDA 21 CFR 177.1550 (21 CFR 178 3297 AS version), USP Classe VI, EN 16643, Reg 1935/2004, EN 10/2011, 3A Sanitary Standards.
Properties: Its smooth PTFE liner ensure a particularly low level of flow resistance and makes cleaning very easy. The hose is resistant to vacuum up to 910 mbar at 20°C
Application: Suitable for use in the chemical industry as well as the Food and Pharma industries. Assemblies can be supplied "lined" (tafted). Ptfe liner extended through the end fitting, then flared out.

Temperature range:
SMOOTHLINE CHEM and FOOD -40°C(-40°F) to + 150°C (+ 302°F)
SMOOTHLINE PHARMA - 73°C(-100°F) to + 204°C(+400°F)
Safety factor : 4 : 1
Construction: PTFE extruded Liner, White or Black antistatic reinforced with a SS braid
Cover : extruded or wrapped directly on the braid
SMOOTHLINE® CHEM -Black antitstatic Epdm, helical wire encapsulated in rubber cover.
SMOOTHLINE® FOOD - Blue Epdm, helical wire encapsulated in rubber cover.
SMOOTHLINE® PHARMA - White Silicone
Marking: continuous transfer tape: "SMOOTHLINE® XXX- PTFE -FDA USP- EU 10/2011 - EN 16643 MADE IN ITALY" + embossed

Internal Diameter		Working Pressure	Bending radius	Vacuum resistance	Burst Pressure
mm	*inch*	*(max) bar*	*(min) mm*	*mbar*	*(max) bar*
6,5	1/4	80	30	910	320
9,5	3/8	70	60	910	280
13	1/2	60	60	910	240
15,5	5/8	50	65	910	200
19,5	3/4	55	80	910	220
25,4	1	50	100	910	200
32	1 1/4	45	160	910	180
38	1 1/2	40	200	910	160
50	2	30	300	910	120

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SMOOTHLINE® - TEX

PTFE LINER, SMOOTH INSIDE CORRUGATED OUTSIDE, COATED

Description : SMOOTHLINE® hose is a PTFE smooth bore liner inside /corrugated outside reinforced with multiple texile fabrics. Avaible with virgin or Black antistatic PTFE liner. It complies FDA 21 CFR 177.1550 (21 CFR 178 3297 AS version), USP Class VI, EN 16643, Reg 1935/2004, EN 10/2011,
Properties: Its smooth PTFE liner ensure a particularly low level of flow resistance and makes cleaning very easy.
Application : Suitable for use in the chemical industry as well as the Food and Pharma industries. Assemblies can be supplied "lined" (tafted). Ptfe liner extended through the end fitting, then flared out.

Temperature range:
SMOOTHLINE CHEM and FOOD -40°C(-40°F) to + 150°C (+ 302°F)
SMOOTHLINE PHARMA - 73°C(-100°F) to + 204°C (+400°F)
Safety factor : 4 : 1
Construction: PTFE extruded Liner, White or Black antistatic version reinforced with textile fabrics.
Cover : extruded or wrapped directly on the braid protection of the hose against heat, friction and abrasion:
SMOOTHLINE® TEX CHEM -Black antistatic Epdm
SMOOTHLINE® TEX FOOD - Blue Epdm
SMOOTHLINE® TEX PHARMA - White Silicone
Marking: continuous transfer tape
"SMOOTHLINE® TEX XXX- PTFE -FDA USP- EU 10/2011 - EN 16643 MADE IN ITALY" + embossed

Internal Diameter		Working Pressure	Bending radius	Vacuum resistance	Burst Pressure
mm	*inch*	*(max) bar*	*(min) mm*	*mbar*	*(max) bar*
6,5	1/4	16	30	675	64
9,5	3/8	16	60	675	64
13	1/2	16	60	675	64
15,5	5/8	16	65	675	64
19,5	3/4	16	80	675	64
25,4	1	16	100	675	64
32	1 1/4	16	160	675	64
38	1 1/2	16	200	675	64
50	2	16	300	675	64

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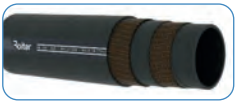
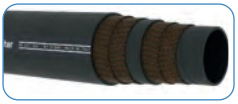
Flexible compressed air hoses

Suitable to deliver compressed air, for medium/heavy duty applications in road construction sites, quarries and mines. Available with different working pressures.

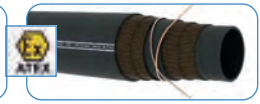


AR 210
Air hose mandrel built
10 Bar



AR 220
Air hose mandrel built
20 Bar

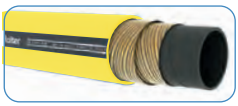
AF 220 FRAS
Air hose Fire resistant anti static ATEX mandrel built
20 Bar



AF 410 FRAS
Air/Water Fire resistant anti static S&D hose - ATEX mandrel built
20 Bar

AR 340
Air hose steel reinforced mandrel built
40 Bar

AR 345 HIGRADE
Air hose steel reinforced mandrel built high temp/oil resistant
45 Bar



AR 370 STEELFLEX
Air hose steel reinforced mandrel built
70 Bar

ARC 325
Hot air compressor hose mandrel built
25 Bar

ARC 610
Hot blower air hose
Spiral wire reinforced, mandrel built
10 Bar

AR 500
Industrial air vacuum/air ducting hose mandrel built
10 Bar

MPH 111 - FARIVO®
Multipurpose hose
10 Bar

MPH 121 - FARIVO®
Multipurpose hose
20 Bar

ARC 700
Exhaust Gas suction hose
Crush resistant

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AR 210
COMPRESSED AIR HOSE - 10 Bar

Application: mandrel built, flexible lightweight medium pressure hose, designed to handle air, water or inert gases. The rugged cover is resistant to abrasion and weathering. AR 210 provides service for low to medium pressure applications in general industrial, steel mills, shipyards, foundries, automotive and construction. Larger dimensions available on request.
Other colours available on request (yellow,green, red, blue, orange)

Temperature range: -35°C / +80°C
Safety factor: Air 3 : 1 / Water 2,5 : 1
Tube: synthetic rubber, black, suitable for oil-laden air, smooth
Reinforcement: high tensile synthetic textile
Cover: synthetic rubber, black, resistant to ozone and weather, wrapped finish
Marking: continuous transfer tape: "ROITER® AR 210 - WP 10 BAR- MADE IN ITALY"

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
13	1/2	3,5	20	10	150	0,20	40
16	5/8	3,5	23	10	200	0,24	40
19	3/4	4	27	10	225	0,36	40
25	1	5	35	10	250	0,51	40
32	1 1/4	5	42	10	300	0,69	40
38	1 1/2	6	50	10	350	0,97	40
51	2	7	65	10	400	1,33	40
63	2 1/2	7	77	10	425	1,89	40
76	3	7	90	10	500	2,07	40
102	4	8	118	10	700	2,96	40

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AR 220
COMPRESSED AIR - 20 BAR

Application: robust mandrel built hose for arduous applications, designed to handle air, water or inert gases. The rugged cover is resistant to abrasion and weathering. AR 220 provides service for medium to high pressure applications, heavy duty air tools, compressors, in general industrial, steel mills, shipyards, foundries, mines, quarries and construction. Larger dimensions available on request. Other colours available on request (yellow, green, red, blue, orange).

Temperature range: -35°C / +80°C.
Safety factor: 3 : 1 / water 2,5 : 1
Tube: synthetic rubber, black, suitable for oil-laden air, smooth.
Reinforcement: high tensile synthetic textile.
Cover: synthetic rubber, black, resistant to ozone and weather, wrapped finish.
Marking: continuous transfer tape: "ROITER® AR 220 WP 20 BAR - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	5,5	30	20	200	0,55	40
25	1	6	37	20	225	0,71	40
32	1 1/4	7	46	20	300	1,04	40
38	1 1/2	8	54	20	400	1,25	40
51	2	8	67	20	500	1,88	40
63	2 1/2	8	79	20	600	2,49	40
76	3	9	94	20	800	3,20	40

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AF 220 FRAS

AIR DELIVERY HOSE - 20 BAR
Fire Resistant Antistatic

Application: specially designed for the conveyance of air and water in mining applications. Suitable for lubricant-laden compressed air and for water.
Cover and tube Fire Resistant Anti-Static (FRAS)
Temperature range: -35°C to +80°C
Safety factor: 4 : 1
Standards: Mandrel built to EN ISO 2398:1997 Type A - DIN 20018-1:2003 - AS/NZS 2660:1991 Class B - ATEX

Tube: black antistatic synthetic rubber compound, oil resistant.
Reinforcement: high strength synthetic textile wrapped. Double copper antistatic wire insert
Cover: black smooth (wrapped finish), chloroprene rubber compound, oil and weather resistant, electrically conductive, resistant to abrasion, flame retardant, fabric impression.
Marking: continuous transfer tape, "ROITER® AF 220 FRAS - FIRE RESISTANT ANTISTATIC - WP 20 BAR MADE IN ITALY".

ATEX

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	5,5	30	20	150	0,60	40
25	1	6	37	20	200	0,72	40
32	1 1/4	7	46	20	250	1,10	40
38	1 1/2	8	54	20	300	1,30	40
51	2	8	67	20	400	1,90	40
63	2 1/2	8	79	20	500	2,50	40
76	3	9	94	20	800	3,30	40
102	4	10	122	20	900	4,60	40
150	6	12,5	175	20	1000	6,10	40

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AF 410 FRAS

AIR & WATER S&D-10 BAR
Fire Resistant Antistatic

Application: Designed specifically for suction and delivery of air & water in mining applications.
Standards: Mandrel built hose, built on EN ISO 2398:1997 Type A- DIN 20018-1:2003 - and to AS/NZ 2660:1991 Class C covering Fire Resistant Anti-Static (FRAS) hose.
Safety factor: 4 : 1

Temperature range: -30 + 80°C
Tube: Black Antistatic NBR synthetic rubber compound, oil resistant.
Reinforcement: wrapped textile reinforcements, steel wire, double antistatic copper wire.
Cover: synthetic rubber, black, resistant to ozone and weather, abrasion resistant, resistant to oil, cloth impression.
Marking: continuous transfer tape "ROITER®
AF 410 FRAS S&D- WP 10BAR - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
38	1 1/2	5	48	10	165	1,60	40
51	2	5	61	10	230	2,10	40
63	2 1/2	6	75	10	300	2,80	40
76	3	6	88	10	365	3,80	40
102	4	7	116	10	520	5,20	40
127	5	8	143	10	600	5,50	40
152	6	8	168	10	950	9,90	40

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AR 340
AIR STEEL HOSE - 40 BAR

Application: mandrel built, strong industrial hose, designed to handle air and water. The hose construction is reinforced with high tensile steel cord reinforcements, providing high pressure capability and excellent coupling retention. Provides service for heavy duty air tools, compressors, drill hose, high pressure air, dust suppression and water, in general industrial, construction, mining and quarry applications.
Larger dimensions available on request.
Norms: ISO 1307

Temperature range: -30°C / +80°C.
Safety factor: 4 : 1
Tube: synthetic rubber, black, suitable for compressed air, smooth.
Reinforcement: steel wire cords.
Cover: synthetic rubber, yellow, resistant to ozone and weather, wrapped finish, pin pricked.
Marking: continuous transfer tape: "ROITER® AR 340 STEEL AIR WP 40 BAR - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
25	1	5,5	36	40	150	0,88	40
32	1 1/4	5,5	43	40	200	1,10	40
38	1 1/2	6	50	40	300	1,54	40
51	2	7,5	66	40	400	2,50	40
63	2 1/2	8	79	40	500	3,30	40
76	3	9	94	40	600	5,00	40
102	4	10	122	40	750	6,20	40

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AR 345 - HIGRADE

AIR STEEL- 45 BAR - HITEMP/OIL RESISTANT

Application: high nitrile mandrel built, strong industrial hose, designed to handle air with high temperatures or with high oil content. Indicated to be used for compressed air where old compressors or oil presence are involved. Construction is reinforced with steel cords providing high pressure capability. Provides service for heavy duty air tools, compressors, drill hose, high pressure air, in general industrial, mining, construction, and quarry applications. Other diameters available.
Norms: ISO 1307

Temperature range: -30°C/+135°C (-22°F/+275°F)
Safety factor: 3,5 : 1
Tube: high quality NBR, black, suitable for high oil-laden air, and high temperatures, smooth.
Reinforcement: steel wire cord.
Cover: synthetic rubber, yellow, resistant to ozone and weather, abrasion and oil, wrapped finish, pin pricked.
Marking: continuous transfer tape, "ROITER® AR 345 HIGRADE- AIR WP 45 BAR - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
25	1	6	37	45	150	0,90	40
32	1 1/4	6	44	45	200	1,10	40
38	1 1/2	8	54	45	300	1,90	40
51	2	8,5	68	45	400	2,90	40
63	2 1/2	8,5	80	45	500	3,30	40
76	3	9	94	45	600	5,00	40
102	4	11	124	45	750	6,20	40

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AR 370 STEELFLEX
AIR STEEL- 70 BAR

Application: heavy duty mandrel built, extra strong industrial hose, designed to handle air and water at extremely high pressures. The hose construction is made with ultra-high tensile steel metal cord reinforcements, providing high pressure capability and water hammer retention. Provides service for heavy duty air tools, compressors, drill hose, high pressure air, dust suppression and water, in general industrial, construction, mining and quarry applications.
Norms: ISO 1307

Temperature range: -30°C/+135°C (-22°F/+275°F)
Safety factor: 3,5 : 1
Tube: high quality NBR, black, suitable for high oil-laden air, and high temperatures, smooth.
Reinforcement: extra strong steel wire cords.
Cover: synthetic rubber, yellow, resistant to ozone and weather, wrapped finish, abrasion and oil, pin pricked.
Marking: continuous transfer tape, "ROITER® AR 370 STEELFLEX- AIR WP PK BAR - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
25	1	5,5	36	70	200	0,88	40
32	1 1/4	5,5	43	70	250	1,10	40
38	1 1/2	6	50	70	350	1,54	40
51	2	7,5	66	70	400	2,50	40
63	2 1/2	8	79	70	500	3,30	40
76	3	9	94	70	700	5,00	40
102	4	10	122	70	800	6,20	40

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ARC 325
HOT AIR COMPRESSOR - 25 BAR

Application: heavy duty compressed hot air hose, used as blower hose, for bulk loading/unloading of dry materials in silos or trucks. The hose is used to transfer hot air from compressor to the storage silo or cargo, to propell bulk products.
Feature: long service life due to heat resistant rubber compounds with peaks up to 190°C.

Temperature range: 40°C / +160°C (short time +190°C)
Safety factor: 6 : 1
Tube: EPDM, black, resistant to hot air, smooth.
Reinforcement: multiple steel wire cords.
Cover: EPDM, black, resistant to ozone and weather, abrasion resistant, wrapped finish.
Marking: continuous tape: "ROITER® ARC 325 HOT AIR BLOWER 160°C- WP 25 BAR - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
51	2	8	67	25	250	2,30	40
60	2 3/8	8	76	25	320	3,10	40
65	2 1/2	8	81	25	350	3,40	40
75	3	8	91	25	450	4,00	40

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ARC 610
HOT AIR COMPRESSOR - 10 BAR

Application: hot air blower hose, engineered for bulk loading/unloading of dry materials in silos or trucks. The hose is used to transfer hot air from compressor to the storage silo or cargo, to propell bulk product.
Feature: the hose tube features a temperature rating to peaks up to 240°C and the double steel wire helix provides full suction capability, kink resistance and flexibility, the double crossed copper wire, guarantee a path to conduct static electrical charges to the ground.
Notice: upon request also available with a white rubber tube for granules.

Temperature range: 40°C / +180°C short time up to + 240°C
Safety factor: 3 : 1
Tube: EPR, black, smooth, high temperature resistant.
Reinforcement: textile wrapped, double steel wire helix.
Cover: EPR, black, slightly corrugated, resistant to heat, abrasion, ozone and weather, wrapped finish.
Marking: continuous embossed tape, "ROITER® ARC 610 HOT AIR COMPRESSORS -180°C - WP 10 bar - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
51	2	5	61	10	150	1,50	40
63	2 1/2	6	75	10	200	1,80	40
76	3	6	88	10	300	2,14	40
90	3 1/2	6	102	10	360	2,70	40
102	4	6	114	10	450	3,00	40

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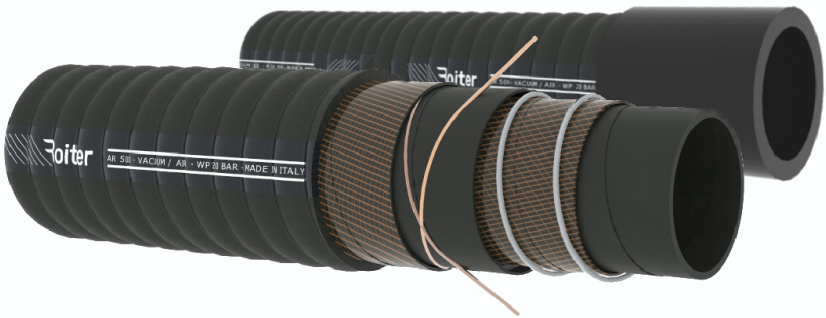
AR 500
INDUSTRIAL AIR VACUUM

Application: flexible and light yet strong hose used for the extraction of dust, exhaust fumes, wood chips, and various types of gases. Expecially useful for applications requiring flexibility and light weight. On request it can be supplied with Natural Rubber, NBR, CR or EPDM tube. This hose is usually manufactured with soft cuff ends.
Feature: Due to the low weight and high flexibility, this hose is suitable for use at the front end of exhaust lines that needs to be handled manually.
Vacuum resistance: up to -0,9 bar .

Temperature range: -35°C / +80°C (+ 95°C full EPDM version)
Tube: black synthetic rubber (static dissipating/static conductive)
Reinforcement: textile wrapped,synthetic fabric with wire helix reinforcements.
Cover: black corrugated, synthetic rubber, ozone, abrasion and weather resistant, wrapped finish continuous embossed tape :
Marking: "ROITER® AR 500 VACUUM - MADE IN ITALY"



Internal dia	Vacuum	Length of soft ends	Bending radius	Working Pressure	Weight approx	Coil length
mm	*%*	*mm*	*mm*	*(max) bar*	*Kg/m*	*(max) m*
51	90	50	125	2	1,02	40
63,5	90	70	150	2	1,22	40
76	90	80	200	2	1,38	40
90	90	100	260	2	1,64	40
102	90	120	300	2	1,98	40
127	70	140	400	1	2,48	40
152	40	150	530	1	3,00	40
203	15	200	850	1	4,75	16
254	15	250	1200	1	5,40	16
305	15	300	1600	1	6,50	16

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MPH 111 FARIVO®
MULTIPURPOSE - D 10 BAR

Application: flexible multipurpose hose, wrapped construction, for use in all industrial applications, refineries, in general for Air/Water/Nitrogen conveying.
On request: other working pressures and diameters available on request. depending on diameters.
Available colors: Black, Yellow, Red, Green and Blue.

Temperature range: -40°C / +80°C
Safety factor: 3 : 1
Tube: Synthetic elastomeric compound, black, smooth, suitable for oil laden air.
Reinforcement: Polyester textile reinforcement.
Cover: Synthetic elastomeric compound, weather and abrasion resistant, fabric impression.
Marking: "ROITER® MPH 111 FARIVO®- MULTIPURPOSE HOSE D-10 BAR-MADE IN ITALY"

Internal Dia		Wall thickness	External Dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
6	1/4	3	12	10	50	0,13	40/60/100
8	5/16	3,5	15	10	65	0,18	40/60/100
10	3/8	3,5	17	10	80	0,20	40/60/100
13	1/2	3	19	10	105	0,22	40/60/100
16	5/8	3,5	23	10	130	0,30	40/60/100
19	3/4	4	27	10	150	0,40	40/60/100
25	1	4,5	34	10	200	0,62	40/60/100
32	1 1/4	5	42	10	250	0,80	40/60
38	1 1/2	5	48	10	310	1,03	40/60

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MPH 121 FARIVO®
MULTIPURPOSE - D 20 BAR

Application: Robust flexible multipurpose hose, wrapped construction, for use in all industrial heavy duty applications, refineries, in general for Air/Water/ Nitrogen conveying.
On request: Available in the version **MP121 OIL** for domestic heat oil supply and fuel conveying, with excellent resistance to hydrocarbons, for fuel truckdelivery. Other working pressures and diameters available on request.
Available colors: Black, Yellow, Red, Green and Blue.
Acc to UNI EN ISO 1307:2008

Temperature range: -30°C / +80°C
Safety factor: 3 : 1
Tube: Synthetic elastomeric compound, black, smooth, suitable for oil laden air.
Reinforcement: Polyester textile reinforcement.
Cover: Synthetic elastomeric compound, weather and abrasion resistant, fabric impression.
Marking: "ROITER® MPH 121 FARIVO® - MULTIPURPOSE HOSE D-20 BAR-MADE IN ITALY"

Internal Dia		Wall thickness	External Dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
6	1/4	4	14	20	50	0,17	40/60/100
8	5/16	4,5	17	20	65	0,24	40/60/100
10	0,375	4,5	19	20	80	0,28	40/60/100
13	0,5	5	23	20	100	0,38	40/60/100
16	0,625	5	26	20	125	0,45	40/60/100
19	0,75	6	31	20	140	0,65	40/60/100
25	1	6	37	20	180	0,8	40/60/100
32	1.1/4	6	44	20	230	1	40/60
38	1.1/2	6,5	51	20	265	1,25	40/60

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ARC 700

EXHAUST GAS SUCTION HOSE
CRUSH RESISTANT

Application: Suction hose for vehicles exhaust gases and other warm gasses. Heavy and crush resistant structure, used on the floors of the garages, coach works, test centers, etc
Feature: long service life due to heat resistant rubber compounds with peaks up to 190°C.

Temperature range: 40°C / +170°C (short time +190°C)
Tube: EPDM, black, resistant to hot air, smooth.
Reinforcement: high tensile synhtetic plies
Cover: EPDM, black, square corrugation, resistant to ozone and weather, abrasion resistant, fabric finish.

Internal Diameter		Working Pressure	Bending Radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*Kg/m*	*(max) m*
51	2	5	300	1,00	40
76	3	5	450	1,55	40
102	4	5	600	2,2	40
127	5	5	750	2,7	16
152	6	5	900	3,1	16

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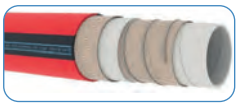
Flexible food and drink hoses

Suitable to convey food and drink, wine, alcohol, beer, olive oil, seeds oil, fruit juice and potable water. Manufactured according to international specifications. Phthalates free.

AL 110 WINEY®-D
Wine delivery hose

10 Bar



AL 410 WINEY®-S&D
Wine suction and delivery hose

10 Bar

AL 610 DIVINE®
Premium wine suction and delivery hose

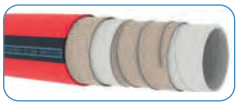
10 Bar

AL 810 DIVINE® SLIDE
Premium wine suction and delivery hose.

10 Bar

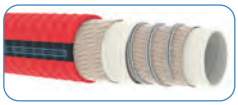
AP 110 BIERY®-D
Beer delivery hose

10 Bar



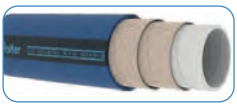
AP 410 BIERY®-S&D
Beer S & D hose

10 Bar



AP 610 BIERY®-S&D
Premium beer suction and delivery hose

10 Bar



AG 110 FATTY®-D
Fatty food delivery hose

10 Bar

AG 410 FATTY®-S&D
Suction and delivery hose for fatty foods and edible oils

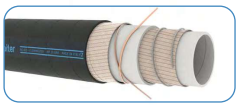
10 Bar

AG 810 EXTRAFLEX
Suction and delivery hose for fatty foods and edible oils

10 Bar

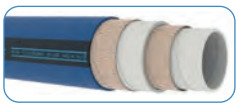
AG 806 MILKY®SLIDE
External reinforced suction and delivery hose for milk trucks

6 Bar



AG 420 FLOWMASTER
Foodstuff HD suction and delivery hose for filling and discharging

20 Bar



AM 106 MILKY®-D
Delivery hose for milk and dairy products

6 Bar

AM 406 MILKY®-S&D
Suction and delivery hose for milk and dairy products

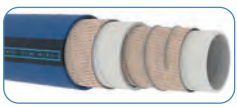
6 Bar

AL 406 ROILAT®
Suction and delivery hose for milk collection.

6 Bar

AM 112
Multipurpose delivery hose for all food products

12 Bar



AM 412
Multipurpose suction and delivery hose for all food products

12 Bar

AM 612
Multipurpose semi-corrugated suction and delivery hose for all food products

12 Bar

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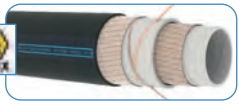
Flexible food and drink hoses

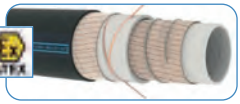
Suitable to convey food and drink, wine, alcohol, beer, olive oil, seeds oil, fruit juice and potable water. Manufactured according to international specifications. Phthalates free.

AS 010 SILO SOFT WALL
Dry food silos delivery hose
10 Bar

AS 410 SILO
Dry food silos suction and delivery hose
10 Bar

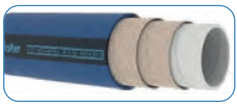


ASG 110 SILO
Granulate food silos delivery hose for ATEX environment
10 Bar



ASG 410 SILO
Granulate food silos suction and delivery hose for ATEX environment
10 Bar

ASG 606 SILO
Semi-corrugated dry food silos suction and delivery hose for ATEX enironment
6 Bar



AW 112
UHMW PE delivery hose
12 Bar

AW 412
UHMW PE suction and delivery hose
12 Bar

AW 415 AQUA
UHMW PE potable water delivery hose
15 Bar

AW 616
FOOD UPE - S&D
16 Bar

AC 107 WASHDOWN
Hot water/steam food quality
6 Bar

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AL 110 WINEY®
WINE & ALCOHOL - D

Application: flexible discharge hose for the transfer of wine, alcoholic drinks up to 36%, and soft drinks in beverage industries.
Feature: white food quality tube with high temperature resistance. Tasteless, odourless, kink resistant, sturdy, very light.
Standard/approval: BfR (former BgVV) XXI:2020 (kat. 2), Weihenstephan, FDA (CFR 21 §177.2600), DM 21/03/1973
Notice: resistant to many aggressive cleaning agents. See our separate information sheet.
ATTENTION: other diameters and WP available on request.

Temperature range: -35°C / +95°C, steam cleaning without pressure up to 130°C/max. 30 min.
Safety factor: 3 : 1
Tube: NR white, food quality FDA, smooth,
Reinforcement: textile wrapped.
Cover: red colour synthetic rubber, resistant to ozone and weather, abrasion resistant, cloth impression. Other colours available on request.
Marking: continuous transfer tape: "ROITER® AL 110 WINEY® - WP 10 BAR - FDA - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	5	29	10	120	0,56	40
25	1	6	37	10	200	0,75	40
32	1 1/4	8	48	10	300	1,26	40
38	1 1/2	8	54	10	375	1,62	40
40	1 5/8	9	58	10	400	1,80	40
51	2	10	71	10	500	2,19	40
60	2 3/8	11	82	10	550	3,55	40
63,5	2 1/2	12	87,5	10	600	3,90	40
76	3	12	100	10	650	4,34	40
80	3 1/4	13	106	10	700	4,80	40
102	4	13	128	10	800	6,34	40

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AL 410 WINEY®
WINE & ALCOHOL S&D

Application: high quality food hose designed for suction and delivery of wine, soft drinks, fruit juices (also concentrated) and alcoholic drinks, up to 36%.
Feature: extremely flexible due to the special rubber materials and the design of reinforcements.
Standard/approval: BfR (former BgVV) XXI:2002 (Kat. 2), FDA(CFR21§177.2600), DM 21/03/1973
Notice: smooth tube allows for easy cleaning.
For the application of cleaning agents please see our separate information sheet.
ATTENTION: other diameters and WP available on request.

Temperature range: -35°C / +95°C, steam cleaning without pressure up to 130°C / max. 30 min.
Safety factor: 3 : 1
Tube: white, smooth natural rubber tube , food quality, according to FDA specifications.
Reinforcement: synthetic plies reinforcement, steel wire helix. On request SS wire helix.
Cover: Red smooth synthetic rubber, resistant to ozone and weather, abrasion resistant, fabric finish.
Marking: continuous transfer tape:
"ROITER® AL 410 WINEY® - WP 10 BAR - FDA - MADE IN ITALY".

Internal Dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
25	1	6	37	10	150	0,73	40
32	1 1/4	6	44	10	225	1,00	40
38	1 1/2	7	52	10	300	1,36	40
51	2	7	65	10	350	1,85	40
63,5	2 1/2	8	79,5	10	400	2,88	40
76	3	8,5	93	10	450	3,39	40
80	3 1/4	8,5	97	10	500	3,50	40
102	4	9	120	10	650	4,91	40

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AL 610 DIVINE® - PREMIUM

WINE HOSE - S&D

WITH SEMI - CORRUGATED COVER

Application: flexible suction and discharge hose for use in food and beverage industries. Specially designed for wine industries. Thanks to special smooth and low friction cover compound, guarantees an excellent abrasion resistance.

Manufactured in two different versions:

1. **STD** - with a white smooth odorless food quality NR rubber tube, additional outer layer on cover to improve abrasion resistance and reduce porosity. The hose is semi-corrugated for a better flexibility. S.S Reinforcement wire
2. **SQZ** - same white smooth odorless food quality NR rubber tube, with a special reinforcement spiral helix in UHMWPE, allowing the hose to remain light and flexible, and even in case of crushing, to return to the original diameter.

Standard/approval: BfR (former BgVV) XXI:2002 (Kat. 2), FDA(CFR21§177.2600), DM 21/03/1973.

Temperature range: -35°C / +90°C, steam cleaning up to max 130°C/max. 30 min, without pressure.
Safety factor: 3 : 1
Tube: white, smooth, odourless and taste free, foodgrade white FDA rubber (DIVINE®).
Reinforcement: high tensile textile reinforcement.
STD: steel embedded wire helix. On request SS wire helix.
SQZ: UHMW PE embedded wire helix.
Cover: Low friction, Red, semi-corrugated, extra- smooth finish, resistant to oils and fats, wheater, ozone and abrasion. On request Blue color.
Marking: continuous transfer tape: "ROITER® - AL 610 DIVINE - FDA FOOD QUALITY -S&D WP 10 bar - PHTHALATE FREE".
Notice: smooth tube allows for easy cleaning. For the application of cleaning agents please see our separate information sheet.

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
25	1	6	37	10	120	0,75	40
32	1 1/4	6,5	45	10	175	1,00	40
38	1 1/2	7	52	10	200	1,40	40
51	2	7	65	10	250	1,85	40
63,5	2 1/2	7	77,5	10	300	2,20	40
76	3	8	92	10	350	3,40	40
80	3 1/2	8	96	10	375	3,80	40
102	4	8	118	10	425	4,20	40

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AL 810 - DIVINE® SLIDE

WINE HOSE - S&D

WITH OUTER THERMOPLASTIC PROTECTION SPIRAL

Application: Flexible suction and delivery hose for use in food and beverage industries. Specially designed for wine industries. Suitable for wine, beer, potable water, liquids with low alcoholic content (up to 36%).
Feature: ideal for handling beer, high quality alcoholic drinks and wines, soft drinks, fruit juices and for use in food processing plants.
Standard/approval: ISO 1307 - FDA (CFR 21 §177.2600).
Notice: Other diameters and colours available on request.

Temperature range: -40°C / +80°C, steam cleaning without pressure up to 120°C / max. 30 min.
Safety factor: 3 : 1
Tube: white, smooth NR rubber compound, food quality odourless and taste free.
Reinforcement: Highly resistant synthetic plies.
Cover: Red, smooth, glossy, NVC with a thermoplastic outer reinforcement helix, resistant to abrasion, ozone and weathering.

Internal DIA in		Wall thickness	Spiral dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
51	2	4,5	6	10	120	1,50	40
63,5	2 1/2	6,5	6	10	140	1,90	40
76	3	7	6	10	170	2,20	40
80	3 1/2	7	6	10	180	2,50	40
102	4	8	6	10	240	3,00	40

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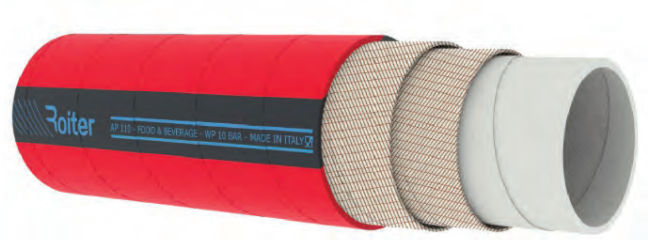
AP 110 BIERY®
BREWERIES - D

Application: premium quality breweries delivery hose, odourless and taste-free. Suitable for wine, beer, potable water, liquids with high alcoholic content (up to 96%).
Feature: ideal for handling beer, high quality alcoholic drinks and wines, soft drinks, fruit juices and for use in food processing plants.
Standard/approval: ISO 1307 - FDA (CFR 21 §177.2600). Other colours, pressures and sizes available on request.
Notice: Other diameters and WP available on request.

Temperature range: -40°C / +120°C. Can be sterilized with steam up to +140°C without pressure / max 30min.
Safety factor: 3 : 1
Tube: white, smooth, IIR Butyl rubber tube, food quality to FDA specifications, odourless and taste-free.
Reinforcement: synthetic plies reinforcement. Layers of synthetic rubber encapsulating the textile reinforcement.
Cover: red, smooth, synthetic rubber cover, abrasion, ozone and weather resistant, fabric finish.
Marking: continuous transfer tape: "ROITER® AP 110 BIERY® - D - WP 10 BAR - FDA FOOD QUALITY - MADE IN ITALY".



Internal Dia		Wall thickness	External Dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	5	29	10	120	0,60	40
25	1	6,5	38	10	200	0,80	40
32	1-1/4	8	48	10	250	1,35	40
38	1-1/2	8	54	10	300	1,80	40
51	2	10	71	10	500	2,30	40
63,5	2-1/2	12	87,5	10	600	4,00	40
76	3	12	100	10	650	4,50	40
102	4	13	128	10	800	6,50	40

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AP 410 BIERY®
BREWERIES - S&D

Application: premium quality brewers suction and delivery hose, odourless and taste-free.
Suitable for wine, beer, potable water, liquids with high alcoholic content (up to 96%).
Feature: ideal for handling high quality alcoholic drinks and wines, soft drinks, fruit juices and for use in food processing plants.
Standard/approval: ISO 1307 - FDA (CFR 21 §177.2600)
Other colours, pressures and sizes available on request.
Notice: Other diameters and WP available on request.

Temperature range: -40°C / +120°C. Can be sterilized with steam up to +140°C without pressure / max 30min.
Safety factor: 3 : 1
Tube: white, smooth, IIR butyl rubber tube, food quality to FDA specifications, odourless and taste-free.
Reinforcement: synthetic plies reinforcement. Stainless steel wire helix. Layers of synthetic rubber encapsulating the textile reinforcement. On request SS wire helix.
Cover: red, smooth, synthetic rubber cover, abrasion, ozone and weather resistant, fabric finish.
Marking: continuous transfer tape: "ROITER®
AP 410 BIERY® S&D - WP 10 BAR - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
25	1	6	37	10	150	0,80	40
32	1 1/4	6	44	10	225	1,20	40
38	1 1/2	7	52	10	300	1,50	40
51	2	7	65	10	350	1,95	40
63,5	2 1/2	8	79,5	10	400	3,00	40
76	3	8,5	93	10	450	3,50	40
102	4	9	120	10	650	5,00	40

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AP 610 BIERY®

PREMIUM BREWERIES - S&D

WITH SEMI-CORRUGATED COVER

Application: premium quality brewers suction and delivery hose, odourless and taste-free.
Suitable for wine, beer, potable water, liquids with high alcoholic content (up to 96%).
Feature: ideal for handling beer, high quality alcoholic drinks and wines, soft drinks, fruit juices and for use in food processing plants. The semi-corrugated surface makes the hose flexible and light, . or easy handling.
Standard/approval: ISO 1307 - FDA (CFR 21 §177.2600). Other colours, pressures and sizes available on request.
Notice: other diameters and WP available on request.

Temperature range: -40°C / +120°C. Can be sterilized with steam up to +140°C without pressure / max 30min.
Safety factor: 3 : 1
Tube: white, smooth, IIR butyl rubber tube, food quality to FDA specificatios, odourless and taste-free.
Reinforcement: synthetic plies reinforcement, double steel wire helix. Layers of synthetic rubber encapsulating the textile reinforcement. On request SS wire helix.
Cover: red, synthetic rubber cover, semi corrugated abrasion, ozone and weather resistant, fabric finish.
Marking: continuous transfer tape: "ROITER® AP 610 BIERY® S&D - WP 10 BAR - MADE IN ITALY ".

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
25	1	6	37	10	120	0,80	40
32	1 1/4	6,5	45	10	175	1,00	40
38	1 1/2	7	52	10	200	1,50	40
51	2	7	65	10	250	1,85	40
63,5	2 1/2	7	77,5	10	300	2,30	40
76	3	8	92	10	350	2,90	40
102	4	8	118	10	425	4,35	40

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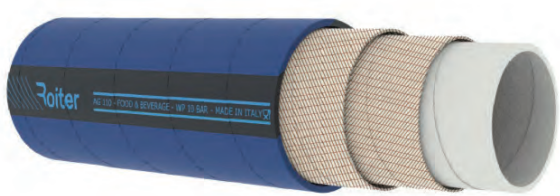
AG 110 FATTY®
OILS & FATTY FOODS - D

Application: discharge hose with thick wall construction, also suitable for light suction of oily and fatty foodstuffs. Commonly used for conveying any type of edible oils, including seeds oil and palm oil.
Standard/approval: BfR (former BgVV) XXI:2002 (Kat.2), FDA (CFR 21 § 177.2600).
Notice: Other diameters and WP available on request.

Temperature range: -35°C / +80°C .
Steam cleaning, without pressure up to 130°C / max 30min.
Safety factor : 3 : 1
Tube: white smooth NBR rubber tube, food quality, according to FDA specifications. Odourless and taste free.
Reinforcement: synthetic plies reinforcement.
Cover: synthetic rubber, blue, resistant to grease and oil, abrasion and weather, cloth impression.
Marking: continuous transfer tape, "ROITER® AG 110 FATTY® - FOOD DELIVERY - WP 10 BAR- FDA - MADE IN ITALY ".



Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	5	29	10	120	0,56	40
25	1	6	37	10	200	0,80	40
32	1 1/4	8	48	10	250	1,35	40
38	1 1/2	8	54	10	300	1,83	40
40	1 5/8	9	58	10	400	1,92	40
51	2	10	71	10	500	2,40	40
63,5	2 1/2	12	87,5	10	600	4,35	40
76	3	12	100	10	650	4,93	40

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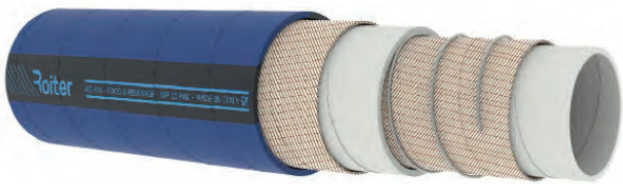
AG 410 FATTY®
OILS & FATTY FOODS - S&D

Application: highly flexible, spiral reinforced suction and delivery hose for filling and discharging tankers, also for use in food and drink industries.
Feature: extremely flexible due to the special rubber materials and the design of reinforcements. Widely used for transfer of any type of edible oils, including seeds oil and palm oil.
Standard/approval: BfR (former BgVV) XXI:2002 (Kat. 2), FDA (CFR 21 §177.2600)
Notice: smooth tube allows for easy cleaning. Other diameters and WP available on request.

Temperature range: -35°C / +80°C, steam cleaning without pressure up to 130°C / max. 30 min.
Safety factor: 3 : 1
Tube: white smooth NBR rubber tube, food quality according to FDA specifications, odourless and tast-free.
Reinforcement: steel wire helix, on request SS wire helix, synthetic plies reinforcement.
Cover: synthetic rubber, resistant to ozone and weather, abrasion resistant, cloth impression.
Marking: continuous transfer tape: "ROITER® AG 410 FATTY® - FOOD S&D FDA - WP 10 BAR - MADE IN ITALY "



Internal dia		Wall thickness	External Dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
25	1	6	37	10	150	0,92	40
32	1 1/4	6	44	10	225	1,14	40
38	1 1/2	7	52	10	300	1,58	40
51	2	7	65	10	350	2,42	40
63,5	2 1/2	8	79,5	10	400	3,29	40
76	3	8,5	93	10	450	3,85	40
80	3 1/4	8,5	97	10	500	4,04	40
102	4	9	120	10	650	5,27	40

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AG 810 EXTRAFLEX

EXTRAFLEXIBLE FOOD HOSE - S&D WITH SEMI-CORRUGATED COVER

Application: highly flexible spiral reinforced suction and delivery hose for filling and discharging any type of edible oils, including seeds oil and palm oil. For use on milk tankers, but also in the food and drinks industry.
Feature: extremely flexible due to the special wire spiral reinforcement, the unique rubber materials and the outer semi-corrugated finish.
Standard/approval: BfR (former BgVV) XXI:2002 (Kat. 2), FDA (CFR 21 §177.2600)
Notice: smooth tube allows for easy cleaning. Other diameters and WP available on request.

Temperature range: -35°C / +80°C, steam cleaning without pressure up to 130°C / max. 30 min.
Safety factor: 3 : 1
Tube: white smooth NBR rubber tube, food quality according to FDA specifications, odourless and tast-free.
Reinforcement: steel wire helix, on request SS wire helix, synthetic plies reinforcement.
Cover: synthetic rubber, resistant to ozone and weather, abrasion resistant, cloth impression.
Marking: continuous transfer tape: "ROITER® AG 810 EXTRAFLEX- FOOD S&D QUALITY FDA - WP 10 BAR - MADE IN ITALY ".

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
25	1	6	37	10	120	0,85	40
32	1 1/4	6,5	45	10	175	1,10	40
38	1 1/2	7	52	10	200	1,55	40
51	2	7	65	10	250	1,85	40
63,5	2 1/2	7	77,5	10	300	1,90	40
76	3	8	92	10	350	3,10	40
102	4	8	118	10	425	4,50	40

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AG 806 - MILKYSLIDE®

MILK - S&D

WITH OUTER THERMOPLASTIC REINFORCEMENT SPIRAL

Application: suction and delivery hose for conveying milk and fatty foods, highly flexible and resistant to abrasion. Is the ideal product for tank trucks, for the daily milk collection.
Feature: extremely flexible due to the special rubber materials and design of reinforcements. The outer plastic wire helix is giving excellent low friction properties to the hose, and allows the water to freely flow under it, during the floor washing procedures.
Standard/approval: FDA title 21 art. 177.2600 (f) for fatty foods, BfR, ADI free, PHTHALATE free
Notice: smooth tube allows for easy cleaning. Vacuum resistant up to - 0,7 Bar

Temperature range: -40°C / +80°C. Steam cleaning without pressure up to 120°C / max 30 min.
Safety factor: 3 : 1
Tube: white, smooth NBR rubber compound food quality, odourless and taste free.
Reinforcement: Highly resistant synthetic plies.
Cover: blue, smooth glossy NVC with a thermoplastic outer reinforcement helix, resistant to abrasion, ozone and weathering.

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
51	2	5	61	6	110	1,70	40
63,5	2 1/2	6	75,5	6	140	2,00	40
76	3	6	88	6	170	2,20	40
102	4	7	116	6	230	2,90	40

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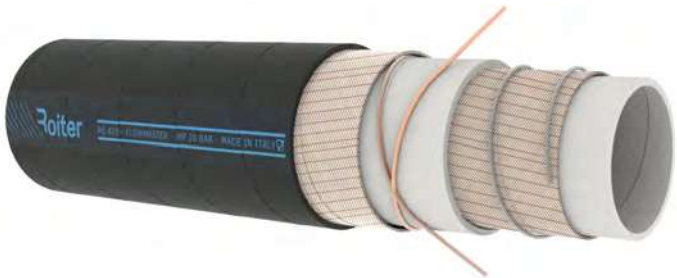
AG 420 - FLOWMASTER®

FOOD GRADE HOSE - WHITE NBR - S&D HOSE

Application: foodstuff Heavy Duty suction and delivery hose for filling and discharging operations.
Suitable for use with animal and vegetable oils ,CPO (crude palm oil) and fatty goods.
Suitable for use in the food and drinks industry for conveying milk and dairy products.
Standard/approval: BfR (former BgVV) XXI:2002 (Kat. 2), FDA (CFR 21 § 177.2600)
Notice: Smooth tube allows for easy cleaning. For the applications of cleaning agents, please refer to our information sheet.
ATTENTION: Not suitable for dry conveyance.
On request with plastic helix (only small bore) or SS helix.

Temperature range: -35°C / +95°C, steam cleaning without pressure up to 130°C/max. 30min.
Safety factor: 3 : 1
Vacuum resistance: up to ~ 0.9 bar
Tube: NBR, white smooth, food quality, grease and oil resistant.
Reinforcement: High tensile textile wrapped, steel wire helix, 2 crossed copper wires.
On request SS wire helix.
Cover: CR, black, abrasion resistant, conductive, oil seawater and weather resistant, cloth impression.
Marking: continuous transfer tape "ROITER TYPE AG 420 FLOWMASTER -FDA HOSE MADE IN ITALY".



Internal Diameter		Wall thickness	External Dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
51	2	11	73	20	200	2,02	40
63,5	2.1/2	11	85	20	300	3,18	40
76	3	11	98	20	350	3,85	40
102	4	13	128	20	500	5,52	40
127	5	13	153	20	600	6,3	40
152	6	14	180	20	800	7,1	40
203	8	17	237	20	1100	18,5	40

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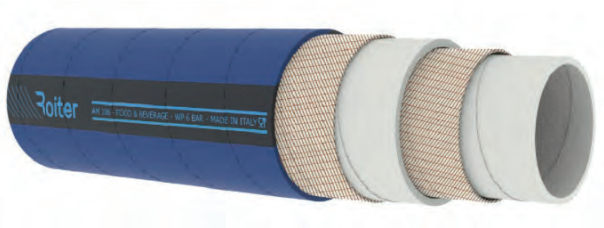
AM 106 MILKY®
MILK HOSE - D

Application: delivery hose for milk and fatty foods. Also suitable for potable water, fruit juices etc.
Standard/approval: FDA title 21 art. 177.2600 (f) for fatty foods, BfR, ADI free, PHTHALATE free
Notice: other diameters and WP available on request.

Temperature range: -40°C / +80°C , steam cleaning without pressure up to 120°C / max. 30 min.
Safety factor: 3 : 1
Tube: white smooth EPDM rubber tube, food quality Odourless and taste free.
Reinforcement: High strength synthetic textile fabrics.
Cover: blue, smooth, cloth impression synthetic rubber, resistant to abrasion, ozone and weathering.
Marking: continuous transfer tape: "ROITER® AM 106 MILKY® - FOOD DELIVERY - WP 6 BAR- FDA - MADE IN ITALY ".



Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	5	29	6	115	0,54	40
25	1	5	35	6	150	0,75	40
32	1 1/4	6	44	6	230	1,05	40
38	1 1/2	7	52	6	240	1,25	40
51	2	7	65	6	310	1,65	40
63,5	2 1/2	7	77,5	6	380	2,20	40
76	3	7	90	6	460	2,65	40
102	4	8	118	6	650	3,60	40

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AM 406 MILKY®
MILK HOSE - S&D

Application: suction and delivery hose for milk and fatty foods, highly flexible spiral reinforced, for filling and discharging tankers, but also for use in the food and drink industries.
Feature: extremely flexible due to the special rubber materials and design of reinforcements.
Standard/approval: FDA title 21 art. 177.2600 (f) for fatty foods, BfR, ADI free, PHTHALATE free.
Notice: smooth tube allows for easy cleaning.
ATTENTION: other diameters and WP available on request.

Temperature range: -40°C / +80°C, steam cleaning without pressure up to 120°C / max. 30 min.
Safety factor: 3 : 1
Tube: white smooth EPDM rubber tube, food quality to FDA specifications, odourless and taste free.
Reinforcement: steel wire helix, synthetic plies reinforcement. On request SS wire helix.
Cover: blue color synthetic rubber, resistant to ozone and weather, abrasion resistant, cloth impression.
Marking: continuous transfer tape: "ROITER®
AM 406 MILKY®- FOOD S&D - WP 6 BAR - FDA - MADE IN ITALY ".

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
25	1	6	37	6	150	0,80	40
32	1 1/4	6	44	6	225	1,10	40
38	1 1/2	7	52	6	300	1,40	40
51	2	7,5	66	6	350	2,30	40
63,5	2 1/2	8	79,5	6	400	3,10	40
76	3	8	92	6	450	3,50	40
102	4	9	120	6	500	5,00	40

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AL 406 ROILAT®
MILK HOSE - S&D

Application: suction and delivery hose for milk collection. Ideal to be used as equipment on milk collecting tankers.
Feature: extremely flexible, due to the special rubber materials and design of reinforcements. Light weight for easy handling. Thanks to the PE spiral reinforcement, will recover the original shape even in case the hose is squeezed. Special outer antibacterial smooth finish.
Standard/approval: FDA title 21 art. 177.2600 (f) for fatty foods, BfR, ADI free, PHTHALATE free.
Notice: smooth tube allows for easy cleaning either with detergent or loose steam.

Temperature range: -35°C / +80°C, steam cleaning without pressure up to 120°C / max. 30 min.
Safety factor: 3 : 1
Tube: white smooth NR, food quality according to FDA specifications, odourless and taste free.
Reinforcement: PET spiral wire helix, embedded, and synthetic plies reinforcement.
Cover: blue color rubber, resistant to ozone and weather, abrasion resistant, antibacterial smooth outer finish.
Marking: continuous transfer tape : "ROITER® AL 406 ROILAT®- WP 6 BAR - FDA - MADE IN ITALY "

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
51	2	7	65	6	150	1,30	40
63,5	2 1/2	7	77,5	6	200	1,70	40
76	3	8	92	6	250	2,20	40
102	4	10	122	6	400	3,50	40

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AM 112
MULTI PURPOSE FOOD EPDM - D

Application: flexible multi purpose delivery hose for delivery of fatty foods, wine, beer, potable water, etc. Suitable for use with alcohol (up to 40%) and soft drinks, fatty (up to 36%) and non-fatty foods.
Feature: white rubber food quality tube with high temperature resistance. Tasteless, odourless, kink resistant, sturdy, very light.
Standard/approval: FDA title 21 art. 177.2600 (f) for fatty foods, BfR, ADI free, PHTHALATE free
Notice: high resistance to aggressive cleaning agents.
ATTENTION: other diameters and WP available on request.

Temperature range: -35°C / +130°C, steam cleaning without pressure max. 30 min.
Safety factor: 3 : 1
Tube: white, smooth EPDM rubber compound, food quality odourless and taste free
Reinforcement: textile wrapped.
Cover: Blue, smooth, cloth impression EPDM rubber, resistant to abrasion, ozone and weathering
Marking: continuous transfer tape: "ROITER®
AM 112 FOOD S&D WP 12 BAR - FDA - MADE IN ITALY.

Internal Diameter		Wall thickness	External Dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
13	1/2	5	23	12	150	0,60	40
19	3/4	6	31	12	190	0,70	40
25	1	6	37	12	250	1,00	40
32	1 1/4	7	46	12	320	1,35	40
38	1 1/2	7	52	12	380	1,60	40
51	2	8	67	12	500	2,60	40
65	2 1/2	8	79,5	12	650	3,80	40
76	3	9	94	12	720	4,30	40
102	4	9	120	12	850	6,29	40

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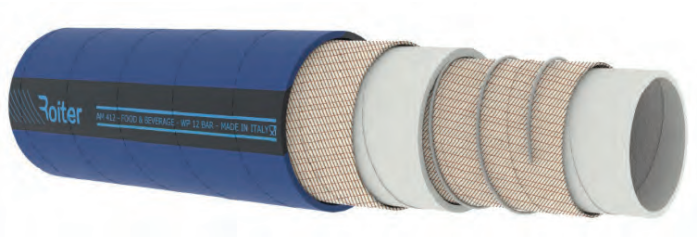
AM 412
MULTI PURPOSE FOOD EPDM - S&D

Application: flexible multi purpose suction & delivery hose for fatty foods, wine, beer, potable water, etc. Suitable for use with alcohol (up to 40%) and soft drinks, fatty (up to 36%) and non-fatty foods.
Feature: white rubber food quality tube with high temperature resistance. Tasteless, odourless, kink resistant, sturdy, very light.
Standard/approval: FDA title 21 art. 177.2600 (f) for fatty foods, BfR, ADI free, PHTHALATE free
Notice: high resistance to aggressive cleaning agents.
ATTENTION: other diameters and WP available on request.

Temperature range: -35°C / +130°C, steam cleaning without pressure max. 30 min.
Safety factor: 3 : 1
Tube: white, smooth EPDM rubber compound, food quality odourless and taste free
Reinforcement: textile wrapped reinforcement, Steel spiral wire reinforcement. On request SS wire helix.
Cover: blue, smooth EPDM rubber, resistant to abrasion, ozone and weathering, cloth impression.
Marking: Continuous transfer tape "ROITER® - AM 412 - WP 12 BAR - FDA - MADE IN ITALY".



Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
25	1	6	37	12	100	0,77	40
32	1 1/4	6	44	12	120	1,20	40
38	1 1/2	6	50	12	160	1,50	40
51	2	6,5	64	12	200	2,00	40
63,5	2 1/2	7	77,5	12	300	2,60	40
76	3	8	90	12	350	3,10	40
102	4	8	118	12	500	4,60	40

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AM 612

MULTI PURPOSE FOOD EPDM - S&D

WITH SEMI - CORRUGATED COVER

Application: highly flexible semi-corrugated multiporpose suction & delivery hose for fatty foods, wine, beer, potable water, etc. Suitable for use with alcohol (up to 40%) and soft drinks, fatty (up to. 36%) and non-fatty food .
Feature: Extremely flexible due to the special rubber materials and outer semi-corrugated finish.
Standard/approval: BfR (former BgVV) XXI:2002 (Kat. 2), FDA (CFR 21 §177.2600)
Notice: smooth tube allows for easy cleaning.
Other diameters and WP available on request.

Temperature range: -35°C / +130°C, steam cleaning without pressure max. 30 min.
Safety factor: 3 : 1
Tube: white, smooth EPDM rubber compound, food quality odourless and taste free
Reinforcement: textile wrapped reinforcement, double steel spiral wire reinforcement. On request SS wire helix.
Cover: blue, semi-corrugated, EPDM rubber, resistant to abrasion, ozone and weathering, cloth impression.
Marking: Continuous transfer tape "ROITER® - AM 612 - WP 12 BAR - FDA - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
25	1	6	37	12	120	0,75	40
32	1 1/4	6	44	12	175	1,00	40
38	1 1/2	7	52	12	200	1,40	40
51	2	7	65	12	250	1,85	40
63,5	2 1/2	7	77,5	12	300	2,20	40
76	3	8	92	12	350	3,40	40
102	4	8	118	12	425	4,20	40

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AS 010 SILO SOFTWALL
DRY FOOD NR - D

Application: silo hose soft wall, for filling silos and silo vehicles, or for discharge dry and dusty foodstuffs such as flour, sugar, animal feed, rice and grain.

ATTENTION: risk of explosion. As the tube material is non- conductive, the conveyed medium and/or the hose may become electrically charged. For such applications, we recommend ***ASG 110***.

Standard/approval: FDA title 21 art.177.2600 (a,b,c,d) for dry foods, BfR, ADI free, PHTHALATE free, DM 21/03/1973.

ATTENTION: for light-coloured plastic granules and milk powder, we recommend the ***ASG 110*** antistatic hose.

Temperature range: -35°C / +80°C, steam cleaning without pressure up to 130°C / max. 30 min.

Safety factor: 3 : 1

Tube: white natural rubber, food grade, FDA quality, smooth.

Reinforcement: synthetic plies reinforcement.

Cover: synthetic rubber, black, resistant to ozone and weather, abrasion resistant, cloth impression.

Marking: continuous transfer tape: "ROITER® AS 010 DRY FOOD SILO D - WP 10 BAR - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*Kg/m*	*(max) m*
63,5	2 1/2	7	77,5	10	1,98	40
76	3	7	90	10	2,20	40
90	3 1/2	7	104	10	2,70	40
102	4	8	118	10	2,95	40

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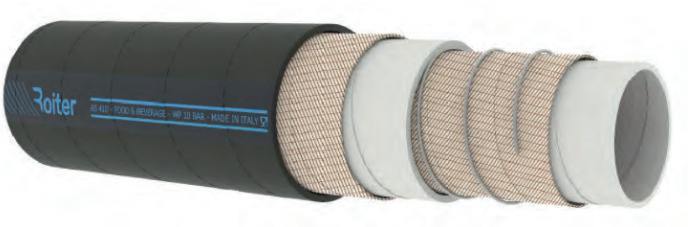
AS 410 SILO
DRY FOOD NR - S&D

Application: silos hose for filling and discharging silos and silo vehicles, or for conveying dry and dusty foodstuffs, animal feed, flour, rice and grain.
ATTENTION: risk of explosion. As the tube material is non- conductive, the conveyed medium and/or the hose may become electrically charged. For such applications, we recommend ***ASG410***.
Standard/approval: FDA title 21 art.177.2600 (a,b,c,d) for dry foods, BfR, ADI free, PHTHALATE free, D.M.21/03/73.
On request:
- Honey color tube - Vulcanised flange - Special hose ends.

ATTENTION: for light-coloured plastic granules and milk powder, we recommend the ***ASG410*** antistatic hose.

Temperature range: -35°C / +80°C, steam cleaning without pressure up to 130°C / max. 30 min.
Safety factor: 3 : 1
Tube: white natural rubber, food quality, according to FDA specifications, smooth.
Reinforcement: synthetic plies reinforcement, steel wire helix. On request SS wire helix.
Cover: synthetic rubber, black, resistant to ozone and weather, abrasion resistant, cloth impression.
Marking: continuous transfer tape, blue letters: "ROITER® AS 410 DRY FOOD SILOS S&D - WP 10 BAR - FDA - MADE IN ITALY".



Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
51	2	7	65	10	350	2,02	40
63,5	2 1/2	8	79,5	10	400	3,18	40
76	3	8	92	10	450	3,85	40
102	4	8	118	10	600	5,52	40
127	5	9	145	10	700	6,30	40
152	6	10	172	10	800	7,10	40

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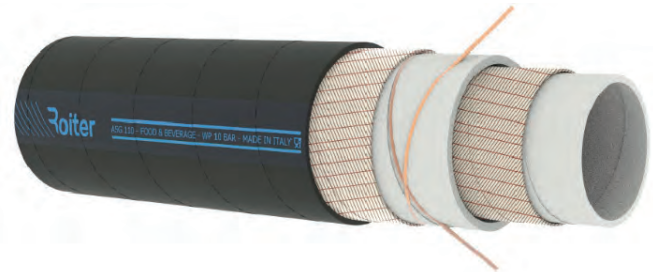
ASG 110 SILO
DRY FOOD - D - ATEX

Application: delivery hose for dry and abrasive foodstuffs such as grains, rice, sugar, flour and animal foods. Used for discharging silos and silo vehicles, or for conveying dry and dusty foodstuffs.
Feature: high-quality compound for tube and cover. Antistatic tube and conductive cover (according to EN ISO 8031:2009) prevent sudden discharge when the conveyed medium and/or hose becomes electrically charged.
Can be used in explosive atmospheres as defined in Directive 94/9/EC (ATEX 95).
Standard/approval: FDA title 21 art.177.2600 (a,b,c,d) for dry foods, BfR, ADI free, PHTHALATE free, D.M. 21/03/73.

Temperature range: -35°C / +80°C, steam cleaning without pressure up to 120°C / max. 30 min.
Safety factor: 3 : 1
Tube: white, smooth rubber compound, food quality odourless and taste-free
Reinforcement: high strength synthetic plies, with two crossing copper wires.
Cover: black, smooth, fire proof and antistatic ($R<10^6$ Ohm/m), CR rubber compound, resistant to chemical products, ozone and weather , fabric finish.
Marking: continuous transfer tape: "ROITER® ASG 110 DRY/GRANULATE FOOD/SILOS D - WP 10 BAR - FDA - MADE IN ITALY".

ATEX



Internal Dia		Wall thickness	External Dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
51	2	7,5	66	10	400	2,40	40
76	3	7	90	10	500	2,30	40
90	3 1/2	7	104	10	600	2,90	40
102	4	8	118	10	800	3,15	40
127	5	9	145	10	875	6,50	40
152	6	12	176	10	910	8,20	40

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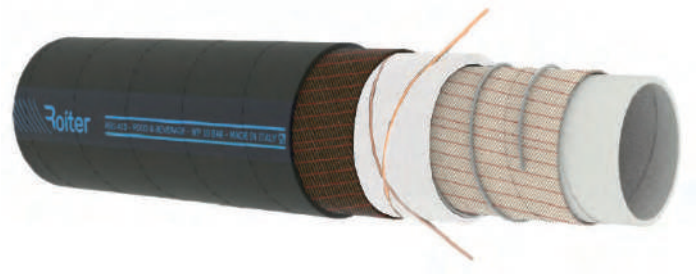
ASG 410 SILO
DRY FOOD - S&D - ATEX

Application: foodstuffs suction & delivery hose for filling and discharging silos and silo vehicles.
Used to convey dry and dusty foodstuffs, grains, rice, sugar, flour and animal feed.
Feature: high-quality compound for tube and cover. Antistatic tube and conductive cover (according to EN ISO 8031:2009) prevents sudden discharge when the conveyed medium and/or hose become electrically charged. Can be used in explosive atmospheres as defined in Directive 94/9/ EC (ATEX 95).
Standard/approval: FDA title 21 art.177.2600 (a,b,c,d) for dry foods, BfR, ADI free, PHTHALATE free, D.M. 21/03/73.

Temperature range: -35°C / +80°C, steam cleaning without pressure up to 120°C / max. 30 min.
Safety factor: 3 : 1
Tube: white, smooth NBR rubber compound, food quality according to FDA rules, odourless and taste free.
Reinforcement: high strength synthetic plies, with steel spiral and two crossing copper wires
Cover: black, smooth, fire proof and antistatic (R<10^6Ohm/m) cloth impression CR rubber compound, resistant to chemical products, ozone and weather .
Marking: continuous transfer tape: "ROITER® ASG 410 DRY/GRANULATE FOOD/SILOS S&D - WP 10 BAR - FDA - MADE IN ITALY".

ATEX



Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
51	2	7	65	10	300	2,80	40
76	3	8	92	10	400	4,20	40
102	4	8	118	10	600	5,75	40
127	5	9	155	10	700	6,50	40
152	6	10	172	10	900	7,50	40

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ASG 606 SILO

DRY FOOD - S&D - ATEX

WITH SEMI - CORRUGATED COVER

Application: semi-corrugated foodstuff suction & delivery hose for filling and discharging silos and silo vehicles.
Feature: light and flexible, used for dry food products such as flour, sugar, grain, animal feed. Antistatic tube and conductive cover (according to EN ISO 8031:2009) prevent sudden discharge when the conveyed medium and/or hose becomes electrically charged. Can be used in explosive atmospheres as defined in Directive 94/9/EC (ATEX 95). Suitable for vacuum uo to 90%
Attention: for heavy duty applications, where high abrasion resistance of the inner tube is required, the polyurethane liner - food quality, odourless and tasteless is suggested **(ASG 606 PU)**
Standard/approval: FDA title 21 art.177.2600 (a,b,c,d) for dry foods, BfR, ADI free, PHTHALATE free, D.M. 21/03/73.

Temperature range: -40°C / +80°C (606 PU +100°C)
Safety factor: 3 : 1
Tube: White, smooth, natural rubber compound, food quality according to FDA, odourless and taste-free
Reinforcement: high strength synthetic plies, with steel spirals and two crossing copper wires.
On request SS wire helix.
Cover: black, semi-corrugated, synthetic rubber compound, antistatic (R>10^6 Ohm/m) resistant to chemical products, ozone and weather, fabric finish.
Marking: continuous transfer tape, blue letters: "ROITER® ASG 606 DRY/GRANULATE FOOD/SILOS S&D - WP 6 BAR - FDA - MADE IN ITALY".

ATEX

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
51	2	7	65	6	200	1,70	40
63,5	2 1/2	8	79,5	6	300	2,40	40
75	3	8	91	6	400	2,90	40
102	4	9	120	6	500	4,30	40

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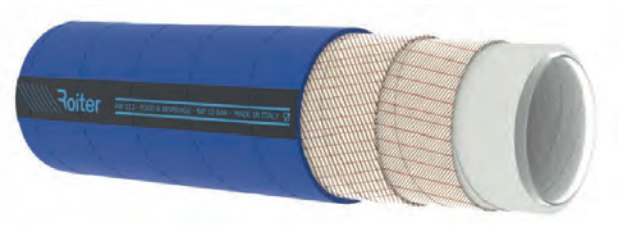
AW 112

FOOD UPE - D

Application: flexible hose for delivery applications, used in food and beverage industries for wine, beer, potable water, etc . Also suitable for use for alcohol with concentration levels of up to 96%.
Feature: kink resistant, sturdy, though extremely light. Tasteless, odourless. High temperature resistance.
Standard/approval: FDA title 21 art.177.2600 (e) for liquid foods, BfR, KTW, PHTHALATE free.
Notice: very high resistance to many aggressive cleaning agents.

Temperature range: -35°C / +95°C, steam cleaning without pressure up to 120°C / max. 30 min.
Safety factor: 3,15 : 1
Tube: UHWMPE, transparent, food quality according to FDA specifications, resistant to grease and oil,
Reinforcement: synthetic plies reinforcement.
Cover: synthetic rubber, blue, resistant to ozone and weather, abrasion resistant, cloth impression.
Marking: continuous transfer tape "ROITER® AW 112 - D - WP 12 BAR - UHMWPE FDA - MADE IN ITALY".



Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	5	29	12	200	1,30	40
25	1	6	37	12	250	1,68	40
32	1 1/4	8	48	12	350	2,14	40
38	1 1/2	9	56	12	400	2,54	40
51	2	11	73	12	500	3,30	40
63,5	2 1/2	12	87,5	12	700	4,30	40
76	3	12	90	12	800	5,28	40
102	4	12	126	12	1000	6,58	40

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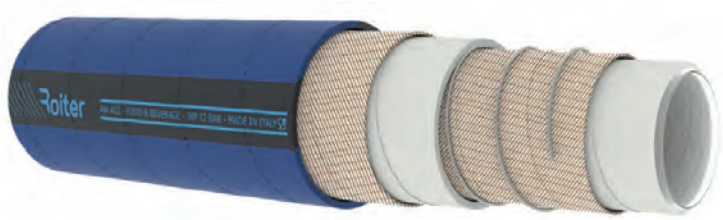
AW 412
FOOD UPE - S&D

Application: flexible hose for suction & delivery applications, used in food and beverage industries for wine, beer, potable water, etc. Also suitable to be used for alcohol with concentration levels of up to 96%.
Feature: kink resistant, sturdy, though extremely light, tasteless, odourless. High temperature resistance.
Standard/approval: FDA title 21 art.177.2600 (e) for liquid foods, BfR, KTW, PHTHALATE free.
Notice: very high resistance to many aggressive cleaning agents.

Temperature range: -35°C / +95°C, steam cleaning without pressure up to 120°C / max. 30 min.
Safety factor: 3,15 : 1
Tube: UHWMPE, transparent, food quality, resistant to grease and oil, smooth.
Reinforcement: synthetic plies reinforcement, steel embedded helix. On request SS wire helix.
Cover: synthetic rubber, blue, resistant to ozone and weather, abrasion resistant, cloth impression.
Marking: continuous transfer: "ROITER® AW 412 S&D - WP 12 BAR - UHMWPE FDA - MADE IN ITALY".



Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
25	1	6	37	12	175	1,90	40
32	1 1/4	8	48	12	225	2,50	40
38	1 1/2	9	56	12	300	3,00	40
51	2	10	71	12	500	3,75	40
63,5	2 1/2	10	83,5	12	600	4,80	40
76	3	10	96	12	700	5,50	40
102	4	10	122	12	800	7,00	40

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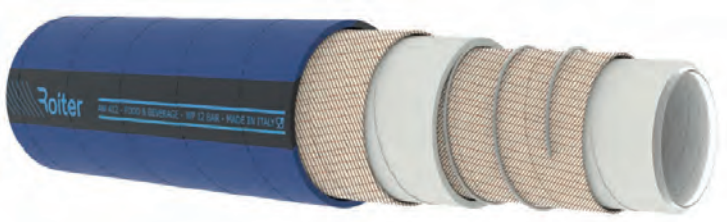
AW 415 AQUA
POTABLE WATER - S&D

Application: flexible hose engineered and designed for suction & delivery specifically for supply of clean potable water. PHTHALATE free and LEAD free.
Feature: kink resistant, sturdy, though extremely light, tasteless, odourless.
Standard/approval: FDA title 21 art.177.2600 (e) for liquid foods, BfR, KTW. Complying with BS 6920 WRAS (Water Regu lations Advisory Scheme). WRAS Material Approval demonstrates that a product satisfies the requirements of Schedule 2 Paragraph 2 (1) of the Water Supply (Water Fittings) Regulations 1999, Scottish Water Byelaws 2004 & the Water Supply (Water Fittings) Regulations (Northern Ireland) 2009.

Temperature range: - 35°C / +95°C, steam cleaning without pressure up to 120°C / max. 30 min.
Safety factor: 3 : 1
Tube: UHWMPE, transparent, food quality, suitable for drinking water, smooth.
Reinforcement: synthetic plies reinforcement, stainless steel wire helix.
Cover: synthetic rubber blue, resistant to ozone - weather and abrasion resistant, cloth impression.
Marking: continuous transfer: ROITER® AW 415 AQUA - POTABLE WATER S&D - WP 15 BAR - FDA - MADE IN ITALY".
Note: Available also in lower pressure ratings.



Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
25	1	6	37	15	175	1,90	40
32	1 1/4	8	48	15	225	2,50	40
38	1 1/2	9	56	15	300	3,00	40
51	2	10	71	15	500	3,75	40
63,5	2 1/2	10	83,5	15	600	4,80	40
76	3	10	96	15	700	5,50	40
102	4	10	122	15	800	7,00	40

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AW 616
FOOD UPE - S&D

Application: flexible hose for suction & delivery applications, used in food and beverage industries for wine, beer, potable water, etc. Also suitable to be used for alcohol with concentration levels of up to 96%.
Feature: kink resistant, sturdy, though extremely light, tasteless, odourless and flexible tanks to the outer semicorrugated finish.
Standard/approval: FDA title 21 art.177.2600 (e) for liquid foods, BfR, KTW, PHTHALATE free.
Notice: very high resistance to many aggressive cleaning agents.

Temperature range: -40°C / +100°C, steam cleaning without pressure up to 120°C / max. 30 min.
Safety factor: ħ : 1
Tube: UHWMPE, transparent, food quality, resistant to grease and oil, smooth.
Reinforcement: synthetic plies reinforcement, double steel embedded wire helix. On request SS wire helix.
Cover: synthetic rubber, blue, resistant to ozone and weather, abrasion resistant, cloth impression.
Marking: continous transfer: "ROITER® AW 616 S&D WP 16 BAR - UHMWPE FDA - MADE IN ITALY"

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
25	1	6	37	16	175	0,90	40
32	1 1/4	6	44	16	225	1,20	40
38	1 1/2	6	50	16	300	1,50	40
51	2	7	64	16	500	2,00	40
63,5	2 1/2	7	77,5	16	600	2,70	40
76	3	8	92	16	700	3,50	40
102	4	9	120	16	800	4,50	40

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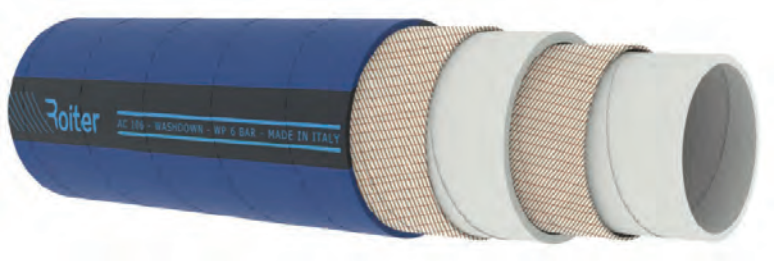
AC 107 WASHDOWN
HOT WATER/STEAM HOSE FOOD QUALITY

Application: mandrel built delivery hose for steam cleaning and hot water washdown in dairies, creameries, used also as delivery hose for clean hot water mixed with steam and detergents. Used for washdown and sterilization in the food industry workshops.
Standard/approval: FDA title 21, art. 177.2600 for aqueous foods. Phthalate free. High resistance to many aggressive cleaning agents.

Temperature range: -40°C / +165°C (saturated steam), +95°C (hot water).
Safety factor: steam 10 : 1 - hot water 3 : 1
Tube: white synthetic rubber food quality, resistant to cleaning agents, smooth.
Reinforcements: High strength synthetic plies
Cover: synthetic rubber, blue colour, resistant to heat and abrasion, wrapped fabric impression.
Marking: continuous transfer tape: "ROITER® AC 107 WASHDOWN FOOD QUALITY - WP 7 BAR - MADE IN ITALY".



Internal Diameter		Wall thickness	External Dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
13	1/2	5	23	S.7 / W.18	90	0,42	40
16	5/8	5	26	S.7 / W.18	100	0,50	40
19	3/4	5,5	30	S.7 / W.18	120	0,60	40
25	1	6	37	S.7 / W.18	160	0,80	40
32	1 1/4	7	46	S.7 / W.18	200	1,20	40
38	1 1/2	7	52	S.7 / W.18	240	1,63	40
51	2	8	67	S.7 / W.18	320	2,12	40

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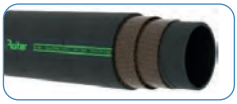
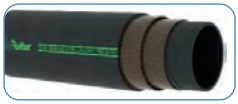
Flexible water hoses

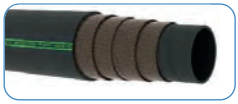
Suitable for all industrial applications, agriculture, artificial snow, fish transfer and constructions.



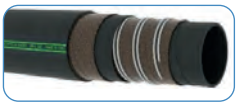
AQ 005 LAYFLAT
Lay flat water discharge hose
5 Bar



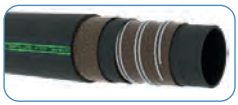
AQ 010 LAYFLAT
Lay flat water discharge hose
10 Bar



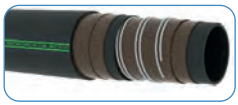
AQ 120 WATER
Water discharge hose
20 Bar



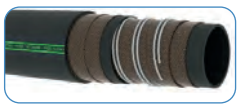
AQ 406 WATER
Water S & D hose
6 Bar



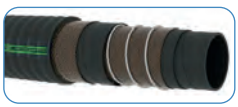
AQ 410 WATER
Water S & D hose
10 Bar



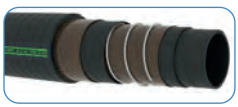
AQ 416 WATER
Water S & D hose
16 Bar



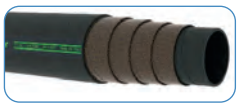
AQ 420 WATER
Water S & D hose
20 Bar



AQ 505 WATER
Water corrugated S&D hose
3 Bar



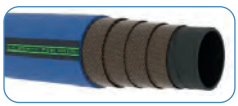
AQ 510 WATER
Water corrugated S&D hose
10 Bar



FP 004 FISH PUMP
Fish transfer hose
4 Bar

AQ 324 FIRE DELUGE
Seawater delivery deluge hose
24 Bar

AQ 925 FIRE SKID
Seawater delivery deluge hose
25 Bar



AQ 160 SNOW GUN
Artificial Snow hose
60 Bar

AQ 399 SNOW GUN
Artificial Snow hose
100 Bar

AM 503 WATERSMOKE
Water & exhaust gases S&D

AM 412 SANIBOAT
Waste water S&D

MDG 108
Dredging hose light weight
10 Bar

MDG 208
Dredging hose heavy duty
10 Bar

IK 250
Sewer jetting hoses
250 Bar

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AQ 005 LAYFLAT
INDUSTRIAL WATER DELIVERY

Application: lightweight rubber hose for industrial water. Can be rolled flat.
Feature: especially suitable as a discharge hose for submersible pumps as well as a water hose in industry, agriculture and construction.
On request: temperature range -35°C / + 95°C (Full EPDM version)

Temperature range: -35°C / +80°C.
Safety factor: 3 : 1
Tube: synthetic rubber, black, smooth.
Reinforcement: wrapped textile reinforcements.
Cover: synthetic rubber, black, weather resistant, abrasion resistant, cloth impression.
Marking: continuous transfer tape: "ROITER® AQ 005 INDUSTRIAL WATER D -WP 5 BAR - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*Kg/m*	*(max) m*
51	2	3	57	5	0,75	40
63,5	2 1/2	3	69,5	5	0,84	40
65	2 5/8	3	71	5	0,85	40
76	3	3	82	5	0,90	40
90	3 1/2	3	96	5	1,30	40
102	4	3	108	5	1,46	40
110	4 5/16	4	118	5	1,73	40
114	4 1/2	4	122	5	1,80	40
127	5	4	135	5	2,10	40
152	6	4	160	5	2,60	40
203	8	4	211	5	4,00	40
254	10	4	262	5	5,05	40
305	12	4,5	314	5	6,40	16
357	14	5	367	5	6,95	16
405	16	7	419	5	9,86	12
457	18	7	471	5	11,50	12
510	20	9	528	5	13,20	12

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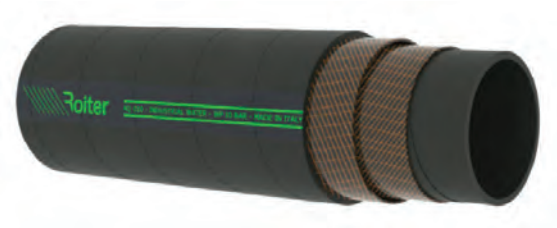
AQ 010 LAYFLAT
INDUSTRIAL WATER DELIVERY

Application: a medium weight rubber hose for industrial water. Can be rolled flat.
Feature: especially suitable as a discharge hose for submersible pumps as well as a water hose in industry, agriculture and construction sites.
On request: Temperature range -35°C / + 95°C. (Full EPDM version).

Temperature range: -35°C / +80°C.
Safety factor: 3 : 1
Tube: synthetic rubber, black, smooth.
Reinforcement: wrapped textile reinforcements.
Cover: synthetic rubber, black, weather resistant, abrasion resistant, cloth impression.
Marking: continuous transfer tape: "ROITER® AQ 010 INDUSTRIAL WATER D - WP 10 BAR - MADE IN ITALY"



Internal dia		Wall thickness	External dia	Working Pressure	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*Kg/m*	*(max) m*
25	1	3	31	10	0,31	40
32	1 1/4	3	38	10	0,44	40
38	1 1/2	3	44	10	0,55	40
51	2	3,5	58	10	0,77	40
63,5	2 1/2	3,5	70,5	10	0,93	40
76	3	3,5	83	10	1,18	40
90	3 1/2	4	98	10	1,39	40
102	4	4	110	10	1,56	40
127	5	4,5	136	10	2,10	40
152	6	4,5	161	10	2,65	40
203	8	5	213	10	4,90	40
254	10	6	266	10	5,15	40
305	12	7	319	10	6,70	16

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AQ 120 WATER
INDUSTRIAL WATER DELIVERY

Application: delivery hose for heavy duty use for media such as waste water, sewage and service water.
Feature: suitable as a water hose in industry, agriculture and construction.
On request: other colours and temperature ranges.

Temperature range: -35°C / +80°C.
Safety factor: 3 : 1
Tube: synthetic rubber, black, smooth.
Reinforcement: high tensile reinforcement fabrics
Cover: synthetic rubber, black, resistant to ozone and weather, abrasion resistant, cloth impression.
Marking: continuous transfer tape: "ROITER® AQ 120 INDUSTRIAL WATER D - WP 20 BAR - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
13	1/2	3,5	20	20	150	0,35	40
19	3/4	4	27	20	230	0,47	40
25	1	5	35	20	300	0,60	40
32	1 1/4	5	42	20	380	0,92	40
38	1 1/2	6	50	20	450	1,10	40
51	2	7	65	20	550	1,70	40
63	2 1/2	7	77	20	580	2,40	40
76	3	7,5	91	20	750	3,13	40
102	4	8	118	20	850	4,64	40
127	5	10	147	20	1000	5,85	40
152	6	10	172	20	1100	7,15	40
203	8	10	223	20	1200	7,75	40

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AQ 406 WATER

CASSETTE HOSE

INDUSTRIAL WATER - S&D

Application: medium duty suction and delivery hose, suitable for sewage, waste water, and water based slurry applications. Especially designed as a "cassette extension hose" on waste suction vehicles.
Feature: dimensionally stable and highly flexible. High vacuum resistance, high abrasion resistance inside and outside.
Notice: spiral-free sleeves available on request.
Vacuum resistance: up to -0.9 Bar.
Other dimension on request.

Temperature range: -35°C / +80°C.
Safety factor: 3 : 1
Tube: synthetic rubber, black, abrasion resistant, limited resistant to oil, antistatic, smooth.
Reinforcement: textile wrapped, steel wire helix.
Cover: synthetic rubber, black, resistant to ozone and wheater; abrasion resistant, cloth impression.
Marking: continuous transfer tape: "ROITER® AQ 406 INDUSTRIAL WATER S&D - WP 6 BAR - MADE IN ITALY".

Internal Diamenter		Wall thickness	External Diameter	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
102	4	8	118	6	400	4,10	20
127	5	8	143	6	600	5,80	40
152	6	8	168	6	720	6,85	40
203	8	10	223	6	1110	11,6	40
254	10	10	274	6	1150	14	40
305	12	17	339	6	1800	31,1	16
357	14	17	391	6	2000	38,8	12
405	16	17	439	6	2400	44	12
457	18	17	491	6	2700	49,39	12
510	20	18	546	6	3000	54,2	12
609	24	20	649	6	3600	66,8	6

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AQ 410 WATER
INDUSTRIAL WATER - S&D

Application: suction and delivery hose for medium duty use such as waste water, sewage and service water. Often used as general "Contractor water suction hose".
On request: spiral-free or extended sleeves; other colours and working pressures also available with double metal spiral, for better bending radius.
Vacuum resistance: up to -0.9 Bar.

Temperature range: -35°C / +80°C.
Safety factor: 3 : 1
Tube: synthetic rubber, black, smooth.
Reinforcement: textile wrapped, double steel wire helix
Cover: synthetic rubber, black, resistant to ozone and weather, abrasion resistant, cloth impression.
Marking: continuous transfer tape: "ROITER® AQ 410 INDUSTRIAL WATER S&D - WP 10 BAR - MADE IN ITALY".

Internal Diamenter		Wall thickness	External Diameter	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	5	29	10	95	0,45	40
25	1	5	35	10	115	0,65	40
32	1 1/4	5	42	10	140	0,82	40
38	1 1/2	5	48	10	160	1,00	40
51	2	5	61	10	235	1,25	40
63	2 1/2	5,5	74	10	310	1,70	40
76	3	6	88	10	370	2,30	40
102	4	7	116	10	600	3,40	40
127	5	8	143	10	650	5,00	40
152	6	8	168	10	820	6,70	40
203	8	10	223	10	1100	11,60	40
254	10	12	278	10	110	15,50	40

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AQ 416 WATER
INDUSTRIAL WATER - S&D

Application: suction and delivery hose for medium duty use such as waste water, sewage and service water.
On request: spiral-free or extended sleeves; other colours and working pressures also available with double metal spiral, for better bending radius.
Vacuum resistance: up to -0.9 Bar.

Temperature range: -35°C / +80°C.
Safety factor: 3 : 1
Tube: synthetic rubber, black, smooth.
Reinforcement: textile wrapped, steel wire helix
Cover: synthetic rubber, black, resistant to ozone and weather, abrasion resistant, cloth impression.
Marking: continuous transfer tape: "ROITER® AQ 416 INDUSTRIAL WATER S&D - WP 16 BAR - MADE IN ITALY".

Internal Diamenter		Wall thickness	External Diameter	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	5	29	16	100	0,61	40
25	1	5	35	16	200	0,81	40
32	1 1/4	5	42	16	275	0,88	40
38	1 1/2	5	48	16	300	1,13	40
51	2	5	61	16	375	1,58	40
63	2 1/2	5,5	74	16	400	2,1	40
76	3	6	88	16	450	2,50	40
90	3 1/2	6	102	16	500	2,70	40
102	4	7	116	16	600	3,68	40
127	5	8	143	16	700	5,70	40
152	6	8	168	16	900	7,52	40
203	8	10	223	16	1100	11,90	40
254	10	12	278	16	1250	16,80	16

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AQ 420 WATER
INDUSTRIAL WATER - S&D

Application: suction and delivery hose for medium duty use such as waste water, sewage and service water.
On request: spiral-free or extended sleeves; other colours and working pressures also available with double metal spiral, for better bending radius.

Temperature range: -35°C / +80°C.
Safety factor: 2,5 : 1
Tube: synthetic rubber, black, smooth.
Reinforcement: textile wrapped, double steel wire helix
Cover: synthetic rubber, black, resistant to ozone and weather, abrasion resistant, cloth impression.
Marking: continuous transfer tape: "ROITER® AQ 420 INDUSTRIAL WATER S&D - WP 20 BAR - MADE IN ITALY".

Internal Diamenter		Wall thickness	External Diameter	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	5,5	30	20	100	0,65	40
25	1	5,5	36	20	200	0,85	40
32	1 1/4	5,5	43	20	275	0,90	40
38	1 1/2	6	50	20	300	1,15	40
51	2	6,5	64	20	375	1,63	40
63	2 1/2	7	77	20	400	2,20	40
76	3	7	90	20	450	2,60	40
90	3 1/2	7	104	20	500	2,70	40
102	4	7	116	20	600	3,75	40
127	5	8,5	144	20	700	5,80	40
152	6	9	170	20	900	7,70	40
203	8	14	231	20	1200	12,30	40
254	10	14	282	20	1300	16,90	16
305	12	15	335	20	2000	20,10	16

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AQ 505 WATER
WATER - S&D

Application: extremely flexible hose with corrugated cover for suction and delivery use such as waste water, sewage and service water. Used for effluent, sewer cleaning, irrigation and tank empting. Excellent bend radius properties and kink resistance. Usually supplied with soft ends.
Feature: thanks to its low weight and high flexibility, this hose is easy to handle and use.
Vacuum resistance - 0,9 bar.
On request: flat corrugated or square corrugated cover, helix-free or enlarged cuffs.

Temperature range: -35°C / +80°C.
Safety factor: 3 : 1
Tube: synthetic rubber, black, abrasion resistant, smooth.
Reinforcement: wrapped textile reinforcements, steel **wire.**
Cover: EPDM, black, resitant to ozone and weather, abrasion resistant, corrugated, with coth impression.
Marking: continuous transfer tape "ROITER AQ 510 WATER S&D - WP 10 BAR - MADE IN ITALY"

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
25	1	5	35	5	80	0,81	40
32	1 1/4	5	42	5	100	0,88	40
38	1 1/2	5	48	5	150	1,13	40
51	2	5,5	62	5	200	1,55	40
63	2 1/2	6,5	76	5	250	2,10	40
76	3	6,5	89	5	350	2,50	40
102	4	7	116	5	475	3,68	40
127	5	8	143	5	600	5,70	40
152	6	8,5	169	5	750	7,52	40
203	8	10	223	5	950	11,60	40
254	10	10	274	5	1200	13,25	40

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AQ 510 WATER
WATER - S&D

Application: suction and delivery hose with corrugated cover for medium duty use such as waste water, sewage and service water.
Feature: very flexible due to corrugated cover.
On request: flat corrugated or square corrugated cover, helix-free or enlarged cuffs.

Temperature range: -35°C / +95°C.
Safety factor: 3 : 1
Tube: EPDM, black, smooth.
Reinforcement: textile wrapped, steel wire helix.
Cover: EPDM, black, resistant to ozone and weather, abrasion resistant, corrugated with cloth impression.
Marking: continuous transfer tape ROITER® AQ 510 WATER S&D - WP 10 BAR - MADE IN ITALY

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
25	1	5	35	10	100	0,90	40
32	1 1/4	5	42	10	120	0,95	40
38	1 1/2	5	48	10	160	1,30	40
51	2	5,5	62	10	220	1,75	40
63	2 1/2	6,5	76	10	250	2,50	40
76	3	6,5	89	10	350	2,75	40
102	4	7	116	10	500	3,95	40
127	5	8	143	10	650	5,90	40
152	6	8,5	169	10	800	7,85	40
203	8	10	223	10	1100	12,00	20
254	10	10	274	10	1200	14,25	20
305	12	13	331	10	2400	15,70	16

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FP 004 FISH PUMP
FISH PUMPS HOSE

Application: suitable for use with most types of pump in the fishing industry.
Feature: a lightweight hose which can be rolled flat for transport and storage.
ATTENTION: be aware that the working pressure depends on the chosen diameter.
Standards: ISO 1307
Other colours, pressures and sizes available on request.

Temperature range: -35°C / +80°C
Safety factor: 3 : 1
Tube: black, smooth synthetic rubber, resistant to abrasion, grease and oil.
Reinforcement: textile wrapped.
Cover: black synthetic rubber, resistant to abrasion, fat, oil, ozone, weather and sea water, cloth impression.
Marking: continuous transfer tape:
"ROITER® FP 004 - FISH PUMP - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*Kg/m*	*(max) m*
203	8	4	211	5	4,00	40
254	10	4	262	5	5,20	40
305	12	4,5	314	5	6,20	16
355	14	5	365	4	7,30	16
409	16	4,5	418	4	8,30	6
457	18	5	467	3	9,30	6
510	20	5	520	3	10,50	6

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AQ 324 FIRE DELUGE ABS
SEAWATER DELIVERY DELUGE HOSE

Application used on fire fighting offshore equipments fire resistant sea water delivery hose. Installation on oil rigs. Special protection with multiple glass fibre layers and thick flame resistant cover. Thanks to the special compound, the hose can be used also for Sea water, or as a multipurpose (mud, oil, brine, etc).
Specification meet and exceed ISO 15540:2016. Ships and marine technology– Fire resistance of non-metallic hose assemblies and non-metallic compensators - Test methods: (800°C x 30') Fire Test resistance acc. to Directive MED 2014/90/EU & Reg. 2019/1397/EU.
Type approval: ABS APPROVED - **BV Cert. n° M63062/20/MN/mn**

Temperature range: -35°C / +100°C
Safety factor: 5:1
Tube: black, smooth NBR rubber
Reinforcement: steel cord; multiple glass fiber layers, 6" and 8" additional steel helix on request.
Cover: CR, red, flame resistant, abrasion, ozone and weather resistant, cloth impression, 6 " and 8" corrugated on request.
Marking: continuous transfer tape: ROITER® AQ 324 FIRE DELUGE HOSE - WP 24 BAR - MADE IN ITALY.

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
51	2	14	79	24	400	4,10	40
76	3	16	108	24	500	5,60	40
102	4	16	134	24	600	8,20	40
152	6	16,5	185	24	1100	15,10	40
203	8	19,5	242	24	1250	21,90	30

*The 2 Diameters 6" & 8" can be supplied with additional Steel Helix reinforcement and outer slightly corrugated cover. This will improve the bending radius of the hose and will facilitate the shipments.

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
152	6	19	190	24	900	16,02	40
203	8	20	243	24	1100	22,76	30

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AQ 925 FIRE SKID
SEAWATER DELIVERY DELUGE HOSE

Application: used on fire fighting offshore equipments. Fire resistant ,sea water delivery hose. Installation on oil rigs. Special protection with glass fibre layers and flame resistant cover. Thanks to the special tube compound, the hose can be used also for sea water, or as a multipurpose hose (mud, oil, brine, etc).
Specification: meet and exceeds ISO 15540:2016 Ships and marine technology– Fire resistance of non-metallic hose assemblies and non-metallic compensators - Test methods: (800°C x 30') Fire Test resistance acc. to Directive MED 2019/90/EU & Reg. 2019/1397/EU.
Type approval: **BV Cert. n° M63062/20/MN/mn**

Temperature range: -35°C / +100°C
Safety factor: 5 : 1
Tube: black, smooth NBR rubber
Reinforcement: glass fiber layer, textile fabrics and steel cord reiforcements; 6" and 8" additional steel helix on request.
Cover: CR, red, flame resistant, abrasion, ozone and weather reistant, cloth impression, 6 " and 8" corrugated on request.
Marking: contInuous transfer tape: ROITER® AQ 925 FIRE SKID HOSE - WP 25 BAR - MADE IN ITALY.

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
51	2	12	75	25	400	3,37	40
76	3	12	100	25	500	4,71	40
102	4	13	128	25	600	6,87	40
127	5	13	153	25	1000	8,48	40
152	6	14,5	181	25	1100	10,96	40
203	8	16	235	25	1250	17,07	30
254	10	18	290	25	1500	21,25	12

The diameters 6", 8" and 10" can be supplied on request, with Helix reinforcement and outer slightly corrugated cover. This will improve the bending radius of the hose and will facilitate the shipements.

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
152	6	17	186	25	900	14,66	40
203	8	18,5	240	25	1150	21,00	30
254	10	20	294	25	1600	27,00	12

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AQ 160 SNOW GUN

WATER DELIVERY HOSE FOR SNOW GUNS - 60 BAR

Application: water delivery hose for snow gun equipments.
Feature: extremely long service life due to abrasion and ozone resistant rubber quality of the cover.
Suitable for delivery of pressurized water to the snow shooter cannon and in the circuits of the cannon itself.
On request: other diameters available.

Temperature range: -40°C / +80°C.
Safety factor: 3:1
Tube: synthetic rubber, black, smooth.
Reinforcement: wrapped textile reinforcements.
Cover: synthetic rubber, blue, weather resistant, abrasion resistant, cloth impression.
Marking: continuous transfer tape: "ROITER® AQ 160 SNOW GUN HOSE - WP 60 BAR - MADE IN ITALY"

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
38	1 1/2	7	52	60	380	2,75	40
51	2	7,5	66	60	500	3,50	40
65	2 1/2	7	79	60	550	4,20	40

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AQ 399 SNOW GUN
WATER DELIVERY HOSE FOR SNOW GUNS - 100 BAR

Application: snow gun hose offering a flexible connection for delivery of pressurized water from the fixed water system to the snow shooter cannon.
Feature: with the special blue UHMWPE outer cover, it's particularly indicated to be used as underground connection between reservoir and artificial snow gun. Extremely long service life due to abrasion and aggressive attack resistance of the cover.
On request: other diameters available.

Temperature range: -45°C / +80°C.
Safety factor: 2,5 : 1
Tube: synthetic rubber, black, smooth.
Reinforcement: wrapped steel cord reinforcements.
Cover: blue UHMWPE, chemical resistant, abrasion resistant, cloth impression.
Marking: continuous embossed tape: "ROITER® AQ 399 SNOWGUN HOSE - WP 100 BAR - MADE IN ITALY"

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
38	1 1/2	7	52	100	800	2,95	40
51	2	7,5	66	100	1000	3,20	40
65	2 1/2	8	81	100	1100	4,70	40

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AM 503 WATERSMOKE

WATER & EXHAUST GASES S&D

Application: suction and delivery hose with corrugated cover suitable for medium duty use, for cooling water and exhaust gases on marine engines.
Feature: Hose manufactured according to ISO specification 13363 type 2 Class B and RINA DIP 123816/CS

Temperature range: -35°C +120°C
Tube: Synthetic rubber compound, black, smooth
Reinforcement: High strength synthetic fabrics, and steel wire spiral. On request without spiral.
Cover: CR rubber compound, self estinguish and resistant to heat, fuels and weathering

Internal Diameter		Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
25	1	3	80	0,60	40
30	1 3/6	3	95	0,70	40
35	1 3/8	3	110	0,80	40
40	1 9/16	3	150	0,90	40
45	1 25/32	3	165	1,10	40
51	2	3	175	1,20	40
55	2 5/32	3	200	1,30	40
60	2 3/8	3	220	1,35	40
70	2 3/4	3	260	1,80	40
76	3	3	280	2,00	40
80	3 5/32	3	300	2,20	40
90	3 1/2	3	350	2,60	40
102	4	3	400	3,00	40
127	5	3	550	3,80	40
130	5 1/8	3	590	3,90	40
152	6	3	760	4,40	40
203	8	3	1000	7,00	40
254	10	3	1270	8,70	16
305	12	3	1850	11,20	16

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AM 412 SANIBOAT

WASTE WATER S&D

Application: Suction and delivery hose for sanitary equipments installed on board of boats . Full odour barrier.
Feature: Hose manufactured according to specification EN ISO 8099

Temperature range: -40°C +120°C
Tube: White, smooth BIIR (butyl) rubber compound, food quality odourless and taste free
Reinforcement: High strength synthetic fabrics, and steel wire spiral
Cover: White, smooth, cloth impression EPDM rubber, resistant to abrasion, ozone and weathering

Internal Diameter		External Dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	29	10	80	0,7	40
25	1	35	10	120	0,9	40
38	1 1/2	48	10	180	1,8	40
40	1 9/16	50	10	180	2	40
45	1 25/32	55	10	200	2,35	40
51	2	61	10	300	2,79	40

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MDG 108
DREDGING HOSE - D

Application: Delivery lightweight hose for sand and gravel mixed with water, used as a flexible connection between sections of discharge pipe in dredging applications.
Feature: long service life due to the abrasion resistant quality of the rubber tube and cover. Average wear of the tube 70 mm^3 (according to DIN ISO 4649:2014).
On request: Available with: enlarged ends, built-in rubber coated flanges or beaded ends.

Temperature range: -30°C / +80°C.
Safety factor: 3 : 1
Tube: synthetic rubber NR/SBR/BR, black, abrasion resistant, smooth.
Reinforcement: synthetic plies reinforcement.
Cover: synthetic rubber, black, resistant to ozone and weather, wrapped fabric finish.
Marking: continuous : "ROITER® MDG 108 DELIVERY - WP 8 BAR - MADE IN ITALY".

Internal Diameter		Wall thickness	External Diameter	Working Pressure	Bending Radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
150	6	12	174	8	1200	5,50	40
200	8	14	228	8	1800	8,50	40
250	10	16	282	8	2000	12,50	16
300	12	20	340	8	2600	16,00	16
350	14	24	398	8	4000	19,50	16
400	16	28	456	8	5000	23,00	16

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MDG 208
DREDGING HOSE - D

Application: heavy duty delivery hose for sand and gravel mixed with water, used as a flexible connection between sections of discharge pipe in dredging applications.
Feature: very long service life due to the superior quality abrasion resistant of the rubber tube and cover. Average wear of the tube 36 mm^3 (according to DIN ISO 4649:2014).
On request: Available with: enlarged ends, built-in rubber coated flanges or beaded ends.

Temperature range: -40°C / +80°C.
Safety factor: 3 : 1
Tube: synthetic rubber NR/SBR/BR, black, abrasion resistant, smooth.
Reinforcement: synthetic plies reinforcement.
Cover: synthetic rubber, black, resistant to ozone and weather, wrapped fabric finish.
Marking: continuous : "ROITER® MDG 208 DELIVERY WP 8 BAR - MADE IN ITALY".

Internal Diameter		Wall thickness	External Diameter	Working Pressure	Bending Radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
100	4	18	136	8	800	7,50	40
150	6	28	206	8	1100	11,50	40
200	8	28	256	8	1800	22,50	12
250	10	30	310	8	2600	28,00	12
300	12	30	360	8	3200	34,00	12
357	14	30	417	8	3600	38,60	12
405	16	32	469	8	4200	47,50	12
510	20	32	574	8	5600	59,75	12

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IK 250 ABRAREX
SEWER FLUSHING HOSE

Application: Pressure hose suited as sewer cleaning hose, for flushing drains and sewers in industry, commerce and infrastructure.
Feature: very long service life due its highly abrasion and weather resistant cover. (Abrasion according to EN ISO 6945:2000, max 0.5g (100N)).
On request: Other connections on request. Other cover colors available
Notice: Hoses are always supplied ready assembled. Steel crimped fittings with BSP threaded connections (one end male, one end female) with 60° conical fittings are used as standard. Other connections on request. Every assembly has a unique serial number on the coupling referring to the test certificate. Each hose is pressure tested.

Temperature range: -25°C / +75°C.
Safety factor: 2,5 : 1
Tube: synthetic rubber, black, smooth.
Reinforcement: 2 layers braided high resistant synthetic fibers.
Cover: ABRABREX, special synthetic compound, with 50% higher abrasion resistance compared to other rubber. Black, resistant to ozone and weather, Pin pricked, slightly fabric finish.
Marking: continuous permanently embossed: "ROITER® IK 250 HOSE - WP 250 BAR - MADE IN ITALY - MONTH/YEAR".

Internal Diameter		Wall thickness	External Diameter	Working Pressure	Bending Radius	Weight approx	Coil Length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*m*
13	1/2	5,5	24	250	80	40	40/60/80/100/120/150
19	3/4	7	33	250	100	60	40/60/80/100/120/150
25	1	8,5	42	250	120	70	40/60/80/100/120/150
32	1 1/4	9	50	250	180	80	40/60/80/100/120/150

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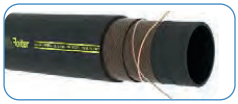
Flexible oil and fuel hoses

Designed for suction and delivery of a wide range of petroleum products
Specific types engineered for aircraft refuelling, LPG, bitumen and a range of hoses for marine offshore applications. Available for use in ATEX areas

CA 016 CARBUFLAT
Flat fuel & oil discharge hose
16 Bar



CA 110
Fuel and oil delivery hose
10 Bar

CA 116 EN
Fuel and oil delivery hose
16 Bar

CA 118
Fuel delivery hose
18 Bar

CA 120
Fuel and oil delivery hose
20 Bar

CA 220
Hose reels fuel and oil delivery
20 Bar

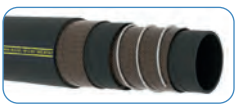
CA 117 TCH
Tank cleaning hose
17 Bar

CA 8103 FLOWMASTER
Oil Bunker S&D hose
20 Bar

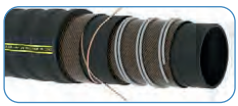
CA 410
Fuel and oil suction & delivery hose
10 Bar

CA 416 EN
Fuel and oil suction & delivery hose
16 Bar

CA 420
Fuel and oil suction & delivery hose
20 Bar



CA 400 SAE 100/R4
Hydraulic oil suction & delivery hose



CA 610
Fuel & oil suction & delivery hose with corrugated cover
10 Bar

CA 610 CRYO
Low temperature fuel & oil suction & delivery hose with corrugated cover
10 Bar

CA 605 MASTERTANK
Tank truck fuel S&D hose with semi-corrugated cover
5 Bar

CA 806
Tank Truck S&D hose with outer plastic wire
6 Bar

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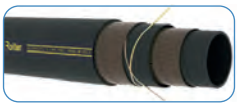
Designed for suction and delivery of a wide range of petroleum products
Specific types engineered for aircraft refuelling, LPG, bitumen and a range of hoses for marine offshore applications. Available for use in ATEX areas

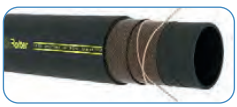


CL 225 LPG / EN1762
LPG delivery hose
25 Bar

CL 425 LPG / EN1762
LPG suction & delivery hose
25 Bar

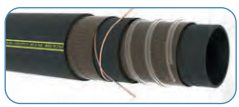
CB 407 TB EN13482
Tar & bitumen S&D hose
7 Bar

CB 316 TB EN13482
Tar & bitumen S&D hose
16 Bar

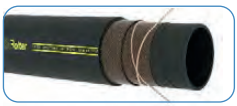


CJ AVIO C 120
Aircraft refuelling hose type C
20 Bar

CJ AVIO E 420
Fuel hose for aircrafts type E
20 Bar



CJ AVIO F 420
Fuel hose for aircrafts type F
20 Bar



CA 115 FLAT MARINE EN1765/L15
Fuel oil discharge marine hose
15 Bar

CA 410 MARINE EN1765/S10
Fuel and oil S&D marine hose
10 Bar

CA 415 MARINE EN1765/S15
Fuel an oil S&D marine hose
15 Bar

CV 416 FKM
Roof drain hose
16 Bar

BOP 5000
Fire safe hose
345 Bar

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CA 016 CARBUFLAT
MINERAL OIL DELIVERY HOSE

Application: flat collapsible discharge hose, for filling and discharging tanks, petrol tankers and ships with mineral oils and fuels, unleaded fuels (EN228:2017) with an aromatic content of components up to 60%.
Suitable for industrial oils, diesel oils (EN 590:2017), fuel oils (DIN 51 603 parts 1 - 5) and mineral-oil based hydraulic oils. Also suitable for biodiesel B10.
Feature: perfect to use as ship to shore bunker hose, CARBUFLAT has been tested according to the technical regulations for combustible liquids (TRbF) 131/2:1992.
Standard/approval: conforming to EN 590 - ISO 1307 - ISO 8031 Type M.

Temperature range: -40°C / +100°C.
Safety factor: 4 : 1
Tube: synthetic rubber, black, electrically conductive, smooth.
Reinforcement: textile wrapped, two crossed copper wires.
Cover: synthetic rubber, black, ozone, weather and abrasion resistant, resistant to oil, fabric impression.
Marking: continuous transfer tape: "ROITER® CARBUFLAT -OIL D – PETROL BUNKER HOSE-WP 16 BAR - R < 10^6 Ohm - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*Kg/m*	*(max) m*
50	2	7	64	16	1,50	40
76	3	7	90	16	1,90	40
102	4	7,5	117	16	2,90	40
152	6	9	170	16	6,70	40
203	8	10	223	16	9,50	40

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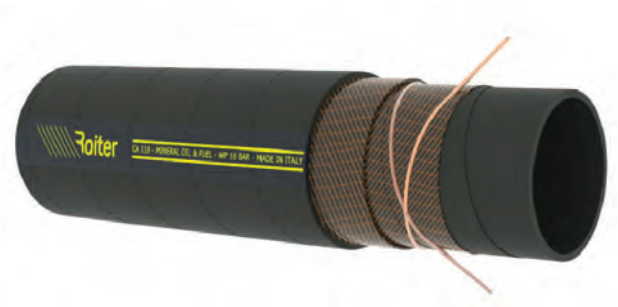
CA 110
FUEL & OIL DELIVERY

Application: compact delivery hose for filling and discharging tanks, petrol tankers and ships with unleaded fuels (EN228:2017) with limited oxygen content according to EEC 85/536 and with an aromatic content of components up to 60%.
Suitable for industrial oils, diesel oils (EN 590:2017), fuel oils (DIN 51 603 parts 1 - 5) and mineral-oil based hydraulic oils.
Also suitable for biodiesel B10.

Temperature range: -40°C / +100°C
Safety factor: 4 : 1
Tube: synthetic rubber black, electrically conductive, smooth.
Reinforcement: wrapped textile reinforcements, double copper wire.
Cover: synthetic rubber black or grey color, resistant to oil, cloth impression.
Marking: continuous transfer tape yellow letters: "ROITER® CA 110 OIL D- WP 10 BAR - MADE IN ITALY".



Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	5	29	10	90	0,51	40
25	1	5	35	10	140	0,62	40
32	1 1/4	5	42	10	170	0,77	40
38	1 1/2	5	48	10	210	0,91	40
51	2	6	62	10	250	1,17	40
76	3	7	90	10	410	2,40	40

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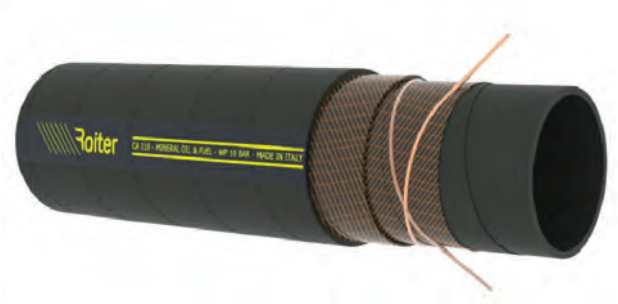
CA 116 EN
FUEL & OIL DELIVERY EN 12115

Application: Delivery hose for fuels and petroleum derivates with aromatic contents up to 60%.
Also suitable for biodiesel B10.
Specifications: EN 12115 / TRbF.
Notice: Cover compounds are tested and approved by I.M.Q. as per the ISO EN 60079-0:2012 (R≤10 Ohm/m). Hose structure designed to assure and maintain the requirements for ATEX working conditions.

Temperature range: -35°C / +100°C.
Safety factor: 4 : 1
Tube: Black, smooth, antistatic NBR rubber compound
Reinforcement: High strength synthetic plies and 2 crossing copper wires for hose grounding.
Cover: Black, smooth, fire proof and antistatic cloth impression, CR rubber compound, resistant to chemical products, ozone and weathering.
Marking: continuous transfer tape yellow letters: ROITER® CA 116 EN 12115 OIL DELIVERY- WP 16 BAR - MADE IN ITALY.

ATEX



Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	6	31	16	125	0,60	40
25	1	6	37	16	150	0,89	40
32	1 1/4	6	44	16	175	1,00	40
38	1 1/2	6,5	51	16	225	1,35	40
51	2	8	67	16	275	2,00	40
63	2 1/2	8	79	16	300	2,50	40
76	3	8	92	16	350	3,00	40
102	4	9	120	16	450	4,15	40

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CA 118
FUEL DELIVERY HOSE

Application: Mandrel built delivery hose for petroleum products. Suitable for petroleum products up to 60% aromatic content and unleaded fuel with max. 5% MTBE and 15% oxygenated compounds.
Feature: suitable for fuel oils, diesel oils, and mineral-oil based hydraulic oils.
Also suitable for all applications according to EN 12115 in the petrochemicals industry.
Vacuum resistant up to 0,4 Bar.
Standard/approval: Complies with EN 12115:2011- Type M

Temperature range: -30°C / +100°C.
Safety factor: 4 : 1
Tube: Black smooth rubber.
Reinforcement: High tensile textile plies and antistatic wires
Cover: Black, smooth rubber, oil, abrasion, ozone and weather resistant. Conductive.
Marking: continuous transfer tape: "ROITER® CA 118 FUEL DELIVERY - WP 18 BAR - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	6	31	18	100	0,62	40
25	1	6	37	18	150	0,89	40
32	1 1/4	6	44	18	190	1,10	40
38	1 1/2	6,5	51	18	230	1,40	40
51	2	8	67	18	300	2,10	40
63	2 1/2	8	79	18	380	2,70	40
76	3	8	92	18	450	3,20	40
102	4	9	120	18	600	4,30	40

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CA 120
FUEL & OIL DELIVERY

Application: medium duty delivery hose for filling and discharging tanks, petrol tankers and ships with unleaded fuels (EN228:2017) with limited oxygen content according to EEC 85/536 and with a maximum aromatic content of components up to 60%. Also suitable for biodiesel B10.
Feature: suitable for industrial oils, diesel oils (EN 590:2017), fuel oils (DIN 51 603 parts 1 - 5) and mineral-oil based hydraulic oils.
Also suitable for applications according to EN 12115 in the petrochemical industry.
This hose has been tested according to the technical regulations for combustible liquids (TRbF) 131/2:1992.
Standard/approval: EN 1761:1999, EN 12115:2011.

Temperature range: -40°C / +100°C.
Safety factor: 4 : 1
Tube: synthetic rubber, black, electrically conductive, smooth.
Reinforcement: textile wrapped, two crossed copper wires.
Cover: synthetic rubber, black or grey, cloth impression.
Marking: continuous transfer tape: "ROITER® CA 120 FUEL & OIL DELIVERY - WP 20 BAR - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
25	1	7	39	20	250	0,90	40
32	1 1/4	7	46	20	300	0,10	40
38	1 1/2	7	52	20	400	1,40	40
51	2	8	67	20	500	2,75	40
63	2 1/2	8	79	20	600	2,90	40
76	3	8	92	20	700	3,25	40
102	4	9	120	20	800	4,80	40

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CA 220
HOSE REELS FUEL & OIL

Application: medium duty, self supporting, delivery hose for filling and discharging tanks, petrol tankers with unleaded fuels and oils with a maximum aromatic content of components up to 60%. Also suitable for biodiesel B10.
Feature: suitable for industrial oils, diesel oils , fuel oils and mineral-oil based hydraulic oils. Thanks to the separated multiple plies construction, this hose is particularly indicated to be used on hose reels. The hose has been tested according to the technical regulations for combustible liquids (TRbF) 131/2:1992.
Standard/approval: EN 1761:1999, EN 12115:2011, ISO 2929:2002.

Temperature range: -40°C / +100°C.
Safety factor: 4 : 1
Tube: synthetic rubber, black, electrically conductive, smooth.
Reinforcement: multiple separated plies wrapped, two crossed copper wires.
Cover: synthetic rubber, black color, cloth impression. On request it can be manufactured with grey (non marking) colour outer cover.
Marking: continuous transfer tape: "ROITER® CA 220 FUEL & OIL DELIVERY-WP 20 BAR - MADE IN ITALY"

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
25	1	7	39	20	150	0,90	40
32	1 1/4	7	46	20	200	1,10	40
38	1 1/2	7	52	20	250	1,40	40
51	2	8	67	20	300	2,75	40
63	2 1/2	8	79	20	400	2,90	40
76	3	8	92	20	450	3,25	40
102	4	9	120	20	600	4,80	40

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CA 117 TCH
TANK CLEANING HOSE

Application: designed and manufactured for use in marine and industrial cleaning applications where safety and strength are required. Especially designed hose for cleaning containers, ship tanks and tank wagons with water.
Notice: Each hose is fully tested at 1,5 times the WP, and for conductivity. A certificate with the serial number and test results is provided for each individual hose at the time of shipment. A full international warranty accompanies each ROITER® CA 117 TCH - Tank Cleaning Hose.

Temperature range: -35°C/+95°C
Safety factor: 4 : 1
Tube: synthetic rubber, black, smooth.
Reinforcement: multiple plies of high strength synthetic fabric wrapped construction. two protruding antistatic steel wires.
Cover: synthetic rubber, black, resistant to abrasion, ozone, weather and seawater, cloth impression. Free of pitting or other defects, with uniform thickness.
Electrical Bond: two stainless steel AISI 316L protruding wires of 1.5 mm diameter.
Marking: continuous transfer tape "ROITER® CA 117 TCH TANK CLEANING HOSE - MADE IN ITALY.
Plus radial yellow depth rings,distance of 5ft (1,5 mt).

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*bar/psi*	*(min) mm*	*Kg/m*	*(max) m*
38	1 1/2	8	54	17 / 250	250	1,55	40
51	2	8	67	17 / 250	300	2,00	40

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CA 8103 FLOWMASTER®
OIL BUNKER S&D HOSE

Application: For suction and delivery of liquid mineral oil products (crude oil, diesel oil, etc. but not liquid gas!) with an aromatic content of max. 50%. Designed for both medium and heavy duty service for thetransfer of petroleum products from tankers or barges to onshore oil storage facilities.
Norm/Registration: Exceed EN 1765:1997 S
Also suitable for applications acc. to EN 12115 in the petrochemicals industry.
Additional information: Steam cleaning at max. 120°C for max. 30 min., pressureless. Up to max. 152 mm inside diameter, it is also suitable for overhead use. Available with vulcanized hose nozzle with screw and flange ends (API, ASA, DIN or other) made of CS or SS

Temperature range: -35°C / +80°C.
Safety factor: 4 : 1
Tube: NBR, black, smooth, oil resistant, antistatic.
Reinforcement: Textile, wrapped, zinc plated steel wire helix, copper wire.
Cover: CR, black, resistant to oil, abrasion,weather and sea water, antistatic, cloth impression.
Marking: continuous layline, black/orange. ROITER® CA 8103 FLOWMASTER® 20 bar (300PSI)- MADE IN ITALY

Internal Diameter		Wall thickness	External Dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
51	2	11	73	20	200	2,02	40
6	2.1/2	11	85	20	300	3,18	40
76	3	11	98	20	350	3,85	40
102	4	13	128	20	500	5,52	40
125	5	13	153	20	600	6,3	40
152	6	14	180	20	800	7,1	40
203	8	17	237	20	1100	18,5	40
254	10	21	296	20	1350	36,5	16

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CA 410
FUEL AND OIL S&D

Application: suction and delivery hose for filling and discharging tanks, petrol tankers and ships with unleaded fuels (EN228:2017) with limited oxygen content according to EEC 85/536 and with an aromatic content of components up to 60%.
Suitable for industrial oils, diesel oils (EN 590:2017), fuel oils (DIN 51 603 parts 1 - 5) and mineral-oil based hydraulic oils.
On request: double metal spiral for better bending radius.

Temperature range: -40°C / +100°C.
Safety factor: 4 : 1
Tube: synthetic rubber black, electrically conductive, smooth.
Reinforcement: wrapped textile reinforcements, steel wire, double antistatic copper wire.
Cover: synthetic rubber, black, resistant to ozone and weather, abrasion resistant, resistant to oil, cloth impression.
Marking: continuous transfer tape "ROITER® CA 410 FUEL&OIL S&D - WP 10BAR - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	5	29	10	125	0,65	40
25	1	5,5	36	10	150	0,80	40
32	1 1/4	6	44	10	175	0,98	40
38	1 1/2	6	50	10	225	1,26	40
51	2	6,5	64	10	275	1,50	40
63	2 1/2	7	77	10	300	2,15	40
76	3	7	90	10	350	2,80	40
102	4	8	118	10	500	4,10	40
127	5	9	145	10	600	5,50	40
152	6	10	172	10	750	7,60	40
203	8	11	225	10	1200	12,50	40

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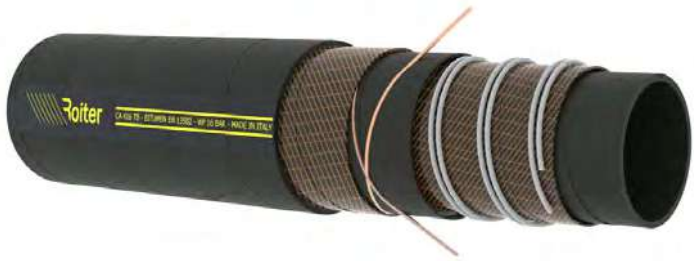
CA 416 EN
ANTISTATIC TANK TRUCK S&D - EN 12115

Application: designed for suction and delivery of gasoline, heating oil, diesel oil other petrochemical products, and for leaded and unleaded fuels (EN228:2017) according to EEC 85/536 and with an aromatic content of components uo to 50%.
Notice: conforms fully to EN 12115 / TRbF standards, ISO 1307. Cover compounds are tested an approved by I.M.Q. as per the ISO EN 60079-0:2012 (R <= 10^9 Ohm/m). Hose structure designed to assure and maintain the requirements for ATEX working conditions.

Temperature range: -40°C / +100°C.
Safety factor: 4 : 1
Tube: Black, smooth, antistatic NBR rubber compound
Reinforcement: High strength synthetic plies, with double steel spirals and two crossing copper wires for hose grounding.
Cover: Black, smooth, fire proof and antistatic (R < 1 G Ohm/m) cloth impression CR rubber compound, resistant to chemical products, ozone and weathering.
Marking: continuous transfer tape: "ROITER® CA 416 EN 12115-OIL S&D WP 16 BAR - MADE IN ITALY"

ATEX



Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
25	1	6	37	16	150	0,86	40
32	1 1/4	6	44	16	175	0,98	40
38	1 1/2	6,5	51	16	225	1,36	40
51	2	8	67	16	275	1,95	40
63	2 1/2	8	79	16	300	2,60	40
76	3	8	92	16	350	2,96	40
102	4	8,5	119	16	450	4,90	40

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CA 420
FUEL AND OIL S&D

Application: heavy duty suction and delivery hose for filling and discharging tanks, petrol tankers with unleaded fuels (EN228:2017) with limited oxygen content according to EEC 85/536 and with an aromatic content of components up to 60%. Suitable for industrial oils, diesel oils (EN 590:2017), fuel oils (DIN 51603 parts 1 - 5), biodiesel (to B100 neat biodiesel), ethanol and gasoline. Also suitable for applications according to EN 12115 in the petrochemical industry.
Feature: this hose has been tested according to the technical regulations for combustible liquids (TRbF) 131/2:1992.
Standard/approval: EN 1761:1999.
Notice: on request, can be produced with outer cover in CR rubber "CA 420 CR".

Temperature range: -40°C / +100°C.
Safety factor: 3 : 1.
Tube: black nitrile, electrically conductive, smooth.
Reinforcement: synthetic textiles, wire spiral, double copper wires.
Cover: synthetic rubber black, resistant to ozone and weather, abrasion resistant, resistant to oil, electrically conductive, cloth impression.
Marking: continuous transfer tape: "ROITER® CA 420 OIL&FUEL S&D - 20 bar/300 psi - MADE IN ITALY"

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	6	31	20	120	0,65	40
25	1	6	37	20	150	0,86	40
32	1 1/4	6	44	20	175	1,02	40
38	1 1/2	6,5	51	20	225	1,30	40
51	2	8	67	20	275	2,09	40
63	2 1/2	8	79	20	300	2,60	40
76	3	8	92	20	350	2,92	40
102	4	10	122	20	450	3,89	40
125	5	10	145	20	750	4,86	40
152	6	12	174	20	900	5,84	40
203	8	15	233	20	1150	7,78	20

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CA 400 - SAE 100/R4
HYDRAULIC OIL - S & D

Application: used in pressure and vacuum applications with petroleum and water based hydraulic fluids and lubricants. Suitable for suction and delivery of petroleum products up to 40% aromatic content.
Feature: hose suitable for oils in compliance with the standard SAE 100/R4.
Standard/approval: SAE J517 Type SAE 100/R4: 2017.
Attention: please be aware of different working pressures.
On request: double steel wire helix for better bending radius.

Temperature range: -40°C / +100°C.
Safety factor: 4 : 1
Tube: synthetic rubber, black, antistatic, smooth suitable for hydraulic oils.
Reinforcement: wrapped textile reinforcements, double steel wire helix.
Cover: synthetic rubber, black, resistant to ozone and weather, abrasion resistant, cloth impression.
Marking: continuous transfer tape: "ROITER® CA 400 SAE 100/R4 S&D- ID... - MAX WP... BAR MADE IN ITALY"

Internal dia		Vacuumm	Working Pressure	Burst Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*bar*	*(max) bar*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
16	5/8	0,8	21	83	50	0,45	40
19	3/4	0,8	21	83	60	0,58	40
25	1	0,8	17	69	75	0,69	40
30	1 3/16	0,8	16	65	90	0,86	40
32	1 1/4	0,8	14	55	100	0,87	40
35	1 3/8	0,8	12	50	105	1,01	40
38	1 1/2	0,8	10	41	115	1,05	40
40	1 5/8	0,8	10	41	120	1,08	40
45	1 3/4	0,8	8	30	135	1,35	40
51	2	0,8	7	28	200	1,56	40
60	2 3/8	0,8	5	22	240	1,89	40
63	2 1/2	0,8	4	17	255	2,04	40
70	2 3/4	0,8	4	17	280	2,35	40
76	3	0,8	4	15	300	2,72	40
80	3 1/4	0,8	4	15	320	2,83	40
90	3 1/2	0,8	4	15	360	3,40	40
102	4	0,6	3	12	400	4,47	40

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CA 610
FUEL AND OIL S&D

Application: semi corrugated suction and delivery fuel hose, designed for tank trucks. Flexible and lightweight, particularly useful and used in any country for filling and discharging tanks, petrol tankers and ships with unleaded fuels (EN228:2012) with an aromatic content of components up to 60%. Suitable for industrial oils, diesel oils, fuel oils. Suitable as well for applications in petrochemical industries.
Feature: conforms to the Technical Regulations for Flammable Liquids TRBF 50:2002.
On request it can be manufactured with blue or light grey (non marking) colour outer cover.
Standard/approval: EN 1761:1999, EN 590.

Temperature range: -40°C / +100°C.
Safety factor: 4 : 1.
Tube: synthetic rubber, black, electrically conductive, smooth.
Reinforcement: wrapped textile reinforcements, double steel wire, double copper wire.
Cover: synthetic rubber, black, resistant to ozone and weather, abrasion resistant, conductive, resistant to oil, semi corrugated, cloth impression.
Marking: continuous transfer tape, yellow:
ROITER® - CA 610 - OIL S&D - WP 10 BAR -R < 10^6 Ohm - MADE IN ITALY.

Internal Diameter		Wall thickness	External Dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
32	1 1/4	6,5	45	10	200	1,10	40
38	1 1/2	6,5	51	10	300	1,40	40
51	2	7	65	10	500	1,80	40
63	2 1/2	7	77	10	600	2,13	40
76	3	8	92	10	700	2,70	40
102	4	8	118	10	800	3,75	40

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CA 610 CRYO
LOW TEMP OIL S & D

Application: suction and delivery fuel hose, designed for cold climates. Flexible and lightweight, particulary useful and used in cold countries for filling and discharging tanks, petrol tankers and ships with unleaded fuels (EN228:2012), with an aromatic content of components up to 50%. Suitable for industrial oils and diesel oils. Suitable as well for application in petrochemical industries.
Features: conforms to the technical requirements for manufactured with black colour outer cover.

Temperature range: -55°C / +90°C.
Safety factor: 4 : 1
Tube: synthetic rubber, black, electrically conductive, smooth.
Reinforcement: wrapped textile reinforcements, double steel wire, double copper wire.
Cover: synthetic rubber, blue, resistant to ozone and weather, abrasion resistant, conductive, resistant to oil, semi corrugated, cloth impression.
Marking: continuous Transfer tape:
"ROITER® CA 610 CRUYO - OIL S&D - WP 10 BAR -R < 10^6 Ohm MADE IN ITALY".

Internal Diameter		Wall thickness	External Dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
32	1 1/4	6,5	45	10	200	1,10	40
38	1 1/2	6,5	51	10	300	1,40	40
51	2	7	65	10	500	1,80	40
63	2 1/2	7	77	10	600	2,13	40
76	3	8	92	10	700	2,70	40
102	4	8	118	10	800	3,75	40

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CA 605 MASTERTANK
MULTIPURPOSE FUEL AND OIL S&D

Application: flexible and lightweight corrugated suction and delivery fuel hose, designed for tank trucks, to handle oil and refined fuels, diesel, and gasoline. Suitable for industrial oils, diesel oils, fuel oils with an aromatic content of components up to 60%. Suitable for industrial oils, diesel oils (EN 590:2017), fuel oils (DIN 51 603 parts 1 - 5), biodiesel (to B10), ethanol and gasoline.
Also suitable for applications according to EN 12115 in the petrochemical industry
Feature: extremely flexible and lightweight, conforms to the Technical Regulations for Flammable Liquids TRbF 50:2002. Conductivity according to ISO 8031
Approvals: Type approved to ADR Annex IV -International carriage of dangerous Goods by Road (ADR)

Temperature range: -35°C / +100°C.
Safety factor: 3 : 1
Tube: synthetic rubber, black, electrically conductive, smooth, antistatic (R < 10^6 Ohm).
Reinforcement: multiple sinthetic plies, high tensile, helix steel wire, double copper wire.
Cover: synthetic rubber, black, resistant to ozone and weather, abrasion resistant, conductive, resistant to oil, semi corrugated, cloth finish.
Marking: continuous transfer yellow tape:
ROITER® - CA 605 MASTERTANK - OIL S&D - WP 5 BAR - R < 10^6 Ohm - MADE IN ITALY.

ATEX

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
32	1 -1/4	5,5	43	5	110	0,75	40
38	1 -1/2	5,5	49	5	140	0,90	40
51	2	5,5	62	5	180	1,20	40
63,5	2 -1/2	6	75,5	5	240	1,70	40
76	3	6,5	89	5	260	2,30	40
80	3 1/4	6,5	93	5	270	2,40	40
102	4	7,5	117	5	320	3,50	40
120	4-3/4	8,5	137	5	480	4,80	40
152	6	9	170	5	600	7,10	40
203	8	10	223	5	800	9,50	40
254	10	11	276	5	1000	10,85	12
305	12	13	331	5	1200	16,00	12

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CA 806
FUEL TRUCK S&D
WITH OUTER THERMOPLASTIC SPIRAL

Application: suction and delivery hose for mineral oils, diesel fuel and gasoline with aromatic contents up to 60%. Very light, very flexible and extraordinarily resistant to abrasion, thanks to the outer thermoplastic helix. Is the ideal product for the fuel distribution companies road tankers.
Vacuum resistance: -0,7 BAR

Temperature range: -40°C / +80°C.
Safety factor: 3 : 1.
Tube: black, smooth, antistatic NBR rubber compound
Reinforcement: High strength synthetic plies, double copper wire for hose grounding
Cover: Black, smooth, glossy, NVC rubber with an outer thermoplastic spiral, resistant to abrasion, ozone and weathering.

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
51	2	5	61	6	110	1,70	40
63	2 1/2	6	75,5	6	140	2,00	40
76	3	6	88	6	170	2,30	40
102	4	7	116	6	230	3,00	40

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CL 225 LPG
EN 1762:2019 - TYPE D

Application: liquified gas delivery hose for filling and draining vehicle tanks according to EN 1762:2019.
Feature: Extremely gas-tight tube, tested according to ISO 4080:2009. The molecules of natural gas are small, enhancing their ability to permeate through standard rubber hose constructions. The permeation process is more rapid as the working pressure increases, and natural gas accumulates with potentially dangerous consequences. The special compound of CL 225 LPG, is extremely gas-tight, tested according to ISO 4080:1995 method 1. In addition, the hose includes bleeder cords to allow trapped gas to be safely vented out, and the cover is pin-pricked to allow the permeation of gases.
Standard/approval: UNI EN 1762:2019 - Rubber hoses and hose assemblies for liquefied petroleum gas, LPG (liquid or gaseous phase), and natural gas up to 25 bar (2,5 MPa)

Temperature range: -40°C / +80°C (liquid gas), +90°C (fuel)
Safety factor: 4 : 1
Tube: synthetic rubber, black, electrically conductive smooth, LPG resistant.
Reinforcement: textile wrapped, two crossed copper wires.
Cover: synthetic rubber, black, resistant to ozone and weather, abrasion resistant, resistant to oil, electrically conductive, cloth impression, pin pricked.
Marking: continuous transfer tape, "ROITER® CL 225 LPG-D-WP 25 BAR -EN 1762-MADE IN ITALY", and continuous embossed tape to EN 1762:2019.

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	6	31	25	160	0,61	40
25	1	6,5	38	25	200	0,84	40
32	1 1/4	6,5	45	25	250	1,02	40
38	1 1/2	7	52	25	320	1,29	40
51	2	8	67	25	400	1,93	40
76	3	9	94	25	650	3,14	40
102	4	10	122	25	800	4,59	40

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CL 425 LPG
EN 1762:2019 - TYPE S&D

Application: liquified gas suction and delivery hose for filling and draining vehicle tanks, and for dockside service. Manufactured according to EN 1762:2019 type SD, CL 425 is a heavy duty liquefied petroleum gas (LPG) propane/butane transfer hose, ideal for large volume bulk loading/unloading. The hose construction incorporates multiple plies of textile reinforcement for flexibility and wire helix for kink resistance, the cover is resistant to abrasion, oil and ozone. The hose meets EN ISO requirements. Suitable as a reel mounted hose.
Feature: the molecules of natural gas are small, enhancing their ability to permeate through standard rubber hose constructions. The permeation process is more rapid as the working pressure increases, and natural gas accumulates with potentially dangerous consequences. The special compound of CL 425 LPG, is extremely gas-tight, tested according to ISO 4080:1995 method 1. In addition, the hose includes bleeder cords to allow trapped gas to be safely vented out, and cover is Pin-pricked to allow the permeation of gases.

Temperature range: -40°C / +80°C (liquid gas), +90°C (fuel).
Safety factor: 4 : 1
Tube: synthetic rubber black, elctrically conductive, smooth.
Reinforcement: multiple textile plies wrapped, 2 crossed copper wires. Double steel helical embedded wire to resist collapse and crush.
Cover: synthetic rubber compound, black, resistant to ozone, weather and abrasion. Resistant to oil, electrically conductive, pin-pricked, fabric impression.
Marking: continuous transfer tape: "ROITER® CL 425 LPG - WP 25 BAR - EN 1762/19 Type SD - MADE IN ITALY", and continuous embossed tape according to EN 1762:2019 requirements.
Standard/approval: UNI EN 1762:2019 - Rubber hoses and hose assemblies for liquefied petroleum gas, LPG (liquid or gaseous phase), and natural gas up to 25 bar (2,5 MPa)

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
38	1 1/2	7	52	25	280	2,30	40
51	2	8	67	25	350	2,85	40
63	2 1/2	9	81	25	480	3,50	40
76	3	9	94	25	550	4,20	40
102	4	10	122	25	720	6,70	40
152	6	12	174	25	1000	12,50	40
203	8	12	228	25	1400	19,50	20
* 254	10	20	294	25	1750	27,50	12
* 305	12	22	349	25	2100	35,50	12

*** Only with built-in couplings**

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CB 407 TB

TAR & BITUMEN S&D HOSE

EN 13482 TYPE 1 CLASS A

Application: suitable for use as tar spraying hose up to 175°C. Based on norm EN 13482. The hose can be used for applications other than tar spraying, as for the transfer of bitumen from tank to trailer.
Also suitable for handling tar and asphalt.
Feature: the design with a steel cord and overlaid textile reinforcements, ensures good layer adhesion and heat insulation.
Notice: mainly supplied in service lengths with fittings at the ends. Couplings can be swaged or "Built in".
The hoses is delivered with a hydrostatic test certificate according to EN 1402. Test results are reported on the certificate. Serial number and manufacturing date (M/Y) are permanently printed on the fittings.

ATTENTION: the hose can only be used at temperatures up to 175°C in accordance with the instructions.
The application of solvents or the use of flame to remove tar is not permitted.
The hose must be replaced even in the case of minor damage.
Temperature range: -35°C/+ 175°C
Safety factor: 6 : 1.
Electrical conductivity: R < 10^6 Ohm.
Tube: black synthetic rubber, smooth heat and oil resistant.
Reinforcement: high tensile textile reinforcment plus steel helix wire, on request double copper wire.
Cover: syntetic rubber, electrically conductive, resistant to abrasion, weather and sea water, cloth impression.
Marking: continuous tape; "ROITER® CB 407 TB - TAR & BITUMEN S&D - EN 13482:2013 TYPE 1 CLASS A - SB - WP 7 BAR - MADE IN ITALY".

Internal dia		Wall thickness	External Dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	6	31	7	120	0,65	40
25	1	6	37	7	150	0,86	40
32	1.1/4	6	44	7	175	1,02	40
38	1.1/2	6,5	51	7	225	1,30	40
51	2	8	67	7	275	2,09	40
63	2.1/2	8	79	7	345	2,60	40
76	3	8	92	7	450	2,92	40
100	4	10	120	7	600	3,89	40

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CB 316 TB

TAR & BITUMEN S&D HOSE EN 13482 TYPE 2 CLASS B

Application: suitable for use as tar spraying hose up to 180°C, with peaks up to 200°C. Based on norm EN 13482. The hose can be used for applications other than tar spraying, as for the transfer of bitumen from tank to trailer. Also suitable for handling tar and asphalt. Designed far loading and unloading from ship to shore.
ROITER 316 TB hose, is the perfect solutions for dock services, even under heavy-duty working conditions. Suction and delivery hose manufactured according to EN 13482.
Feature: the design with a steel cord and overlaid textile reinforcements, ensures good layer adhesion and heat insulation.
Notice: mainly supplied in service lengths with fittings at the ends. Couplings can be swaged or "Built in".
The hoses is delivered with a hydrostatic test certificate according to EN 1402. Test results are reported on the certificate. Serial number and manufacturing date (M/Y are permanently printed on the fittings.

ATTENTION: the hose can only be used at temperatures up to 200°C in accordance with the instructions. The application of solvents or the use of flame to remove tar is not permitted.
The hose must be replaced even in the case of minor damage.
Temperature range: -35°C/+ 200°C
Safety factor: 6 : 1.
Electrical conductivity: R < 10^6 Ohm.
Tube: heat and oil resistant ACM® ULTRA HT elastomer, black, smooth bore (SB).
Reinforcement: wrapped steel reinforcement, high tensile fabrics steel helix wire, on request double copper wire.
Cover: ACM® Ultra HT, electrically conductive, resistant to abrasion, weather and sea water, cloth impression.
Marking: continuous tape; "ROITER® CB 316 TB - TAR & BITUMEN S&D - EN 13482:2013 TYPE 2 CLASS B - SB - WP 16 BAR - MADE IN ITALY".

Internal Diameter		Wall thickness	External Dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	7	33	10	120	1,18	40
25	1	7	39	10	175	1,56	40
32	1 1/4	8	48	10	225	2,28	40
38	1 1/2	8	54	10	275	2,71	40
51	2	12	75	10	345	5,45	40
63	2 1/2	12	87	10	450	5,60	40
76	3	12	100	10	500	6,58	40
100	4	18	136	16	600	13,00	40
127	5	20	167	16	740	16,20	40
152	6	25,5	203	16	860	24,50	40
203	8	28,5	260	16	1100	30,60	40
250	10	32	314	16	1500	41,10	12

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CJ 120 "AVIO C"

AVIATION FUEL - D
ISO 1825, TYPE C

Application: suitable for conveying aircraft fuels. Specially designed for ultra low temperature applications. The special version "LT" offers unmatched low temperature flexibility and an operating temperature range of -55°C to +70°C (-67°F to +158°F).
Standard/approval: Roiter® aviation fuel hoses meet all the leading industry and military standards.
ISO 1825:2017 (formerly EN 1361:2004) Type C8
EI 1529/2014, 7th Edition (API 1529/2005),
Notice: electrical Conductivity: Type C: 10^3 to 10^6 Ω /m

Temperature range: -30°C to +85°C (-22°F to +185°F)
Safety factor: 4 : 1
Tube: synthetic rubber black; the smooth, non porous inner liner is compatible with all known aviation fuel and gasoline grades.
Reinforcement: textile wrapped, double copper wire
Cover: designed for long service life with an excellent outer cover, offering good abrasion and environmental protection. Black, resistant to ozone and weather, resistant to oil, electrically conductive, cloth impression.
Marking: continuous embossed tape:
"ROITER® CJ 120 AVIO C - AIRCRAFT REFUELLING AIRPORT ISO 1825 TYPE C - WP 20 BAR - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	6,5	32	20	110	0,70	40
25	1	6,5	38	20	140	0,80	40
32	1 1/4	6,5	45	20	170	1,10	40
38	1 1/2	7	52	20	200	1,25	40
50	2	8	67	20	250	2,05	40
63	2 1/2	8,5	80	20	290	2,50	40
76	3	8	92	20	300	2,85	40
102	4	9	120	20	410	4,10	40

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CJ 420 "AVIO E"

AVIATION FUEL - S&D

ISO 1825, TYPE E

Application: suction and delivery hard wall hose, suitable for aircraft refuelling (with steel helix). Commonly used for tank trucks, and as connection hose from truck to trailer and for bottom loading operations.
Standard/approval: meets Standards ISO 1825:2017 Type E (formerly EN 1361:2004), EN 12115 SD- Ω/T - EN 1761.
Feature: suitable for all petroleum based products with an aromatic content up to 50%, fuels, jet fuels, deicing fluids and motor oils. Antistatic, electrical resistance <10^6 Ohm.

Temperature range: -30°C / +85°C.
Safety factor: 4 : 1
Tube: high nitrile rubber, black, smooth, antistatic.
Reinforcement: textile wrapped, steel wire helix, two crossed copper wires.
Cover: Chloroprene (CR) rubber, fire resistant, black, ozone and weather resistant, resistant to oil and abrasion, electrically conductive, fabric impression.
Marking: continuous embossed tape:
"ROITER® CJ 420 AVIO E - EN ISO 1825 E - WP 20 BAR - AIR CRAFT REFUELLING - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
50	2	8	67,5	20	250	2,20	40
63,5	2 1/2	9,5	82,5	20	275	2,95	40
76	3	9,5	95	20	300	3,50	40
102	4	9	120	20	450	4,80	40

Vacuum resistance up to -0.9 bar

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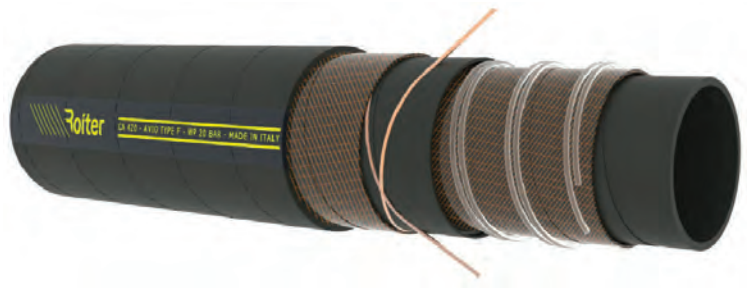
CJ 420 "AVIO F"

AVIATION FUEL - S&D

ISO 1825 - TYPE F

Application: suction and delivery hose suitable for aircraft fuels (with plastic helix).
Feature: hose can be driven over (plastic helix recover form).
Standard/approval: ISO 1825:2017 Type F (formerly EN 1361:2004).

Temperature range: -30°C / +65°C.
Safety factor: 4: 1
Tube: synthetic rubber, black, smooth.
Reinforcement: Textile wrapped, plastic helix.
Cover: synthetic rubber, black, resistant to ozone and weather, abrasion resistant, resistant to oil, electrically conductive, cloth impression.
Marking: continuous embossed tape:
"ROITER® CJ 420 AVIO F -AIRCRAFT REFUELING - ISO 1825 TYPE F - S&D - WP 20 BAR - MADE IN ITALY".



Internal dia		Wall thickness	External Dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
32	1.1/4	8,5	49	20	180	1,50	40
38	1.1/2	8,5	55	20	220	1,70	40
51	2	10	71	20	275	2,50	40
63,5	2.1/2	10	83,5	20	300	3,00	40
76	3	10,5	97	20	330	3,60	40
102	4	11	124	20	410	4,80	40

Vacuum resistance up to -0.65 bar

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CA 115 FLAT MARINE
MINERAL OIL D - EN 1765 L15

Application: flat collapsible discharge hose, for filling and discharging tanks, petrol tankers and ships with mineral oils and fuels, unleaded fuels (EN228:2017) with an aromatic content of components up to 60%.
Suitable for industrial oils, diesel oils (EN 590:2017), fuel oils (DIN 51 603 parts 1 - 5) and mineral-oil based hydraulic oils. Also suitable for biodiesel B10.
Feature: perfect to use as ship to shore and bunker hose, this hose has been tested according to the technical regulations for combustible liquids (TRbF) 131/2:1992.
Fittings: "built in" steel nipples with flanges or couplings to suit customer requirement. Available ends (API, ASA, DIN or other) made of CS or SS. On request."Swaged ends" nipples, crimped with steel ferrules.
Standard/approval: conforming to EN 1765/2016 - L 15 - EN 12115:2011.
Type approved from Lloyd's & Bureau Veritas

Temperature range: -40°C / +100°C.
Safety factor: 4 : 1
Tube: synthetic rubber, black, electrically conductive, smooth.
Reinforcement: textile wrapped, two crossed copper wires.
Cover: synthetic rubber, black, ozone, weather and abrasion resistant, resistant to oil, cloth impression.
Marking: continuous transfer tape:
"ROITER® CA 115 FLAT MARINE - OIL D – EN 1765 L 15 - WP 15 BAR - R < 10^6 OHM" - MADE IN ITALY", and embossed tape according to EN 1765.

Internal dia		Wall thickness	External dia	Working Pressure	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*Kg/m*	*(max) m*
51	2	6	63	15	1,52	40
76	3	6	88	15	2,00	40
102	4	7	116	15	3,20	40
152	6	8	168	15	5,20	40
203	8	10,5	224	15	9,50	40

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CA 410 MARINE

MINERAL OIL S&D - EN 1765/S10

Application: for suction and discharge, for delivery of liquid mineral oil products (crude oil, diesel oil, etc. with aromatic content up to 60%. Ship to Shore transfer acc. to the Pressure Design. Suitable for bunkering services between dock and ship in any possible service condition. Low elongation, kinkproof.
Standard/approval: exceeds the reference standards: EN 1765:2016 Type S10 - BS 1435:1987 Type S10.
Type approved from Lloyd's and Bureau Veritas.
Note: loose steam cleaning up to 120°C for max. 30'.
Fittings: Built in couplings,flanges to suit customer requirements. Available ends (API, ASA, DIN or other) made of CS or SS. On request, "Swaged ends" nipples, crimped with steel ferrules.

Temperature range: -40°C / +100°C.
Safety factor: 4 : 1
Tube: synthetic rubber black, electrically conductive, smooth.
Reinforcement: wrapped textile reinforcements, steel wire, double antistatic copper wire.
Cover: synthetic rubber, black, resistant to ozone and weather, abrasion resistant, resistant to oil, cloth impression.
Marking: continuous transfer tape :
"ROITER CA 410 MARINE- OIL S&D WP 10 BAR- EN 1765/S10 MADE IN ITALY" and embossed tape according to EN 1765

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
51	2	8	66	10	400	3,75	40
63	2 1/2	8	79	10	450	4,00	40
76	3	10	96	10	475	4,50	40
102	4	12	126	10	600	5,55	40
127	5	14	155	10	700	7,10	40
152	6	16	184	10	900	9,35	40
203	8	18	239	10	1200	12,50	40

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CA 415 MARINE

MINERAL OIL S&D- EN 1765 S 15

Application: for suction and discharge, for delivery of liquid mineral oil products (crude oil, diesel oil, etc.with aromatic content of max 60%. Offshore transfer from platforms to ships or from ship to ship. Suitable for bunkering services between dock and ship in any possible service condition. Extremely low elongation.
Standard/approval: exceeds the reference standards: EN 1765:2016 Type S15 - BS 1435:1987 Type S15.
Notice: loose steam cleaning up to 120°C for max. 30'. Up to max. 6"inside diameter, also suitable for aerial use. On request CA 415 hoses can be supplied in the "Self Floating version".
Fittings: Built in Steel nipples with flanges or couplings to suit customer requirements. Available ends (API, ASA, DIN or other) made of CS or SS. On request, "Swaged ends" nipples, crimped with steel ferrules.
Type approved from Lloyd's and Bureau Veritas

Temperature range: -40°C / +100°C
Safety factor: 4 : 1
Tube: synthetic rubber, black, smooth inner tube, oil resistant, antistatic.
Reinforcement: Textile wrapped, steel wire helix. Multiple plies of high tenacity synthetic cord.
Electrical properties: Built in copper conductive wire, electrical continuous.
Cover: Synthetic rubber, black, resistant to oil, abrasion, weather, sea water and ozone, fabric impression. On request corrugated cover for a better flexibility (CA 515)
Marking: Continuous transfer tape:
"ROITER® CA 415 MARINE - EN 1765 S15 - S&D WP 15 BAR - MADE IN ITALY" and embossed tape according to EN 1765

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
102	4	15	132	15	600	9,00	40
152	6	19	190	15	900	14,00	40
203	8	21	245	15	1200	21,00	20
254	10	23	300	15	1500	29,00	12
305	12	27,5	360	15	2600	40,00	12
355	14	30	415	15	3000	46,70	12
405	16	30	465	15	3600	52,50	12
500	20	45	590	15	5900	75,00	12

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CV 416 FKM
ROOF DRAIN HOSE

Application: water draining from roofs of petrochemicals storage tanks -fuel and oil - with up to 100% aromatic content.
On request: fitted assemblies can be supplied on request, with ballast cable and lead weights, to ensure negative buoyancy. Clamps and chain for roof attachment are also available.
Notice: built in or swaged steel couplings with flanges, are available to suit customer's requirements. ANSI, DIN or others, made in C.S. or S.S.
All assembled hoses are hydrostatic factory tested and certified.

Temperature range: -30°C / +100°C.
Safety factor: 4 : 1
Tube: synthetic rubber black, electrically conductive, smooth, resistant to crude petroleum oils
Reinforcement: wrapped textile reinforcements, steel wire, double copper wire.
Cover: FKM black, resistant to 100% aromatics. wrapped fabric finish.
Marking: continuous embossed tape, "ROITER® CV 416 FKM - ROOF DRAIN - WP 16 BAR - MADE IN ITALY" , and continuous longitudinal coloured stripe to ensure correct allignement.

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
51	2	8	67	16	310	2,11	40
63,5	2 1/2	8	79,5	16	380	2,53	40
76	3	13	102	10	450	4,80	40
80	3 1/4	13	106	10	460	4,90	40
102	4	13	128	10	600	6,50	40
127	5	14	155	10	760	7,47	40
152	6	15	182	10	920	9,35	40
203	8	16	235	10	1150	15,41	40

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BOP 5000

FIRESAFE HOSE

Application: BOP hose is mainly used for Blow Out Prevention (BOP) and well control applications. Operating pressure is 5000PSI. It can be directly exposed to flame for more than 5min at the temperature of 704°C, to ensure control system can be operated under emergencies.
Feature: used for hydraulic connections between the well control equipment and the control system.
Fittings: available with NPT /M threads or JIC
Fire resistance: API 16D Flame test, 704°C x 5 minutes

Temperature range: -40°C / +121°C.
Safety factor: 4 : 1
Tube: Black, smooth nitrile rubber, oil resistance, seawater resistance, high temperature resistance, acid & alkali resistance
Reinforcement: High tension steel wire
Cover: Red, chloroprene rubber, fire resistance, wear resistance, ozone & ageing resistance, oil resistance
Marking: continuous transfer tape:
"ROITER® BOP 5000 - FIRESAFE HOSE - WP 354 BAR / 5000 PSI - MADE IN ITALY" and additional embossed tape according to the Standard.

Internal Diameter		Wall thickness	External Dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
10	3/8	8	26	345	152	1,3	100
12,5	1/2	8,75	30	345	229	1,5	100
19	3/4	10	39	345	305	2,0	100
25	1	10	45	345	381	3,1	100
32	1.1/4	13	58	345	457	4,9	60
38	1.1/2	12,5	63	345	559	5,8	60
51	2	14,5	80	345	686	8,4	40

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Steam and hot water hoses

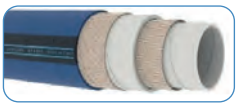
Hose for hot water and steam transfer in chemical, petrochemical and food industries. Used for cooling systems in steel or aluminum mills foundries and glass industries. Available with special covers resistant to heat.

VA 107
Steam hose - textile reinforcement
7 Bar

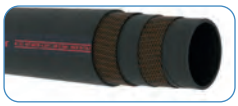
VA 318 BS
Steam hose - steel reinforcement
18 Bar

VA 318 EN/ISO A
Steam hose- steel reinforcement
18 Bar

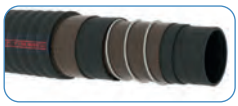
VA 318 EN/ISOB
Steam hose - steel reinforcement oil resistant cover
18 Bar



AC 107 WASHDOWN
Hot water/steam food quality
6 Bar



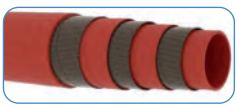
AC 210 - 120° C
Hot water hose D
10 Bar



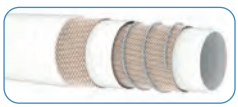
AC 510 - 120° C
Hot water hose S&D
10 Bar

AC 112 GF
Industrial water cooling hose
12 Bar

AC 412 GF
S & D water cooling hose
12 Bar



SI 210
Silicon delivery hose
10 Bar



SI 410
Silicon suction and delivery hose
10 Bar

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VA 107 ISO
STEAM HOSE TEXTILE REINFORCEMENT

Application: suitable for conveying low pressure saturated steam and hot water. Used in industry, refineries, workshops and process plants, suitable for tanks and pipelines steam cleaning in petrochemical industries. Available with red or black outer cover. Specifications: EN ISO 6134 TYPE 1 CLASS A

Temperature range: -40°C / +170°C (saturated steam) +95°C (hot water).
Safety factor: steam 10 : 1 - hot water 3,15 : 1
Tube: synthetic rubber, black, smooth steam resistant.
Reinforcement: wrapped textile reinforcements
Cover: synthetic rubber, red or black, resistant to ozone and weather, limited resistant to oil, fabric finish impression, pin pricked.
Marking: continuous transfer tape "ROITER® VA 107 STEAM TEXTILE 170°C - WP 7 BAR - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
13	1/2	6	25	S. 7 / W. 18	130	0,40	40
16	5/8	7	30	S. 7 / W. 18	160	0,60	40
19	3/4	7	33	S. 7 / W. 18	190	0,65	40
25	1	7,5	40	S. 7 / W. 18	250	0,87	40
32	1 1/4	8	48	S. 7 / W. 18	320	1,10	40
38	1 1/2	8	54	S. 7 / W. 18	380	1,35	40
51	2	9	69	S. 7 / W. 18	500	2,00	40

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VA 318 BS
STEAM HOSE STEEL REINFORCEMENT

Application: mandrel built steam hose, suitable for conveying high pressure saturated steam and hot water.
Feature: electrically conductive: resistance R<10^6 Ohm.
ATTENTION: use only suitable fittings (clamp fittings according to EN 14423:2016).
ATTENTION: superheated steam shortens considerably the service life of the hose.
For longer hose life, always drain after every use.
Specifications: BS 5342:1985 TYPE 2 CLASS A.

Temperature range: -40°C / +210°C peaks up to 232°C (saturated steam), +120°C (hot water).
Safety factor: Steam 10 : 1 - Hot water 3,15 : 1
Tube: synthetic rubber, black, electrically conductive, smooth, resistant to saturated steam.
Reinforcement: double steel cord reinforcement.
Cover: synthetic rubber, red, or black on request, resistant to ozone and weather, fabric finish impression, pin pricked.
Marking: continuous transfer tape, red letters: "ROITER® VA 318 BS- WP 18 BAR 232°C - R < 10^6 Ohm - MADE IN ITALY", and continuous embossed tape according to BS 5342/2A

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
13	1/2	5,5	24	S. 18 / W. 55	125	0,55	40
16	5/16	6	28	S. 18 / W. 55	155	0,60	40
19	3/4	6	31	S. 18 / W. 55	185	0,75	40
25	1	6	37	S. 18 / W. 55	240	0,95	40
32	1 1/4	7	46	S. 18 / W. 55	320	1,30	40
38	1 1/2	7	52	S. 18 / W. 55	380	1,60	40
51	2	7,5	66	S. 18 / W. 55	500	2,20	40
63	2 1/2	9	81	S. 18 / W. 55	630	3,20	40
76	3	9	94	S. 18 / W. 55	750	4,40	40
102	4	10	122	S. 18 / W. 55	1000	6,99	40

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VA 318 A - SATSTEAM 232
EN ISO 6134 2A - STEAM HOSE STEEL REINFORCEMENT

Application: suitable for conveying high pressure saturated steam at 232°C, up to WP 18 Bar.
Feature: used in petrochemical industries, and industrial applications in general.
ATTENTION: use only suitable fittings (clamp fittings according to EN 14423:2016).
ATTENTION: superheated steam shortens considerably the service life of the hose.
For longer life always drain after every use.
Standard approval: EN ISO 6134:2017 Type 2 Class A.

Temperature range: -40°C / +232°C
Safety factor: steam 10 : 1 - hot water 3,15 : 1
Tube: synthetic rubber, black, electrically conductive, smooth.
Reinforcement: double steel cord reinforcement
Cover: synthetic rubber, red or black colour, resistant to ozone and weather, cloth impression, pin pricked.
Marking: continuous transfer tape, red letters: "ROITER® VA 318 EN ISO 2A - WP 18 BAR 232°C -MADE IN ITALY", and continuous embossed tape according to EN ISO 6134.

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
13	1/2	6	25	18	130	0,57	40
16	5/8	7	30	18	160	0,70	40
19	3/4	7	33	18	190	0,80	40
25	1	7,5	40	18	250	1,10	40
32	1 1/4	8	48	18	320	1,40	40
38	1 1/2	8	54	18	380	1,70	40
51	2	9	69	18	500	2,50	40
63	2 1/2	9	81	18	630	3,20	40
76	3	9	94	18	750	4,40	40

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VA 318 B - SATSTEAM 232

EN ISO 6134 2B - STEAM HOSE STEEL REINFORCEMENT

OIL RESISTANT COVER

Application: rubber hose for delivery of saturated steam at 232°C , up to WP of 18 Bar, with oil resistant cover.
Feature: used in petrochemical industries, and industrial applications in general.
ATTENTION: use only suitable fittings (clamp fittings according to EN 14423:2016).
ATTENTION: Superheated steam shortens considerably the service life of the hose!
For longer life, always drain after every use.
Standard approval: EN ISO 6134/17 Type 2 Class B.

Temperature range: -40°C / +232°C
Safety factor: Steam 10 : 1, Hot water 3,15 : 1
Tube: synthetic rubber, black, electrically conductive, smooth.
Reinforcement: double steel cord reinforcement
Cover: synthetic rubber, black colour, oil resistant wrapped construction, fabric finish, pin pricked.
Marking: continuous transfer tape, red letters: "ROITER® VA 318 EN ISO B -WP 18 BAR 232°C -MADE IN ITALY", and continuous embossed tape according to EN ISO 6134.

Internal Diameter		Wall thickness	External Dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
13	1/2	6,5	26	18	130	0,50	40
16	5/8	7	30	18	160	0,70	40
19	3/4	7	33	18	190	0,80	40
25	1	7,5	40	18	250	1,00	40
32	1 1/4	8	48	18	320	1,40	40
38	1 1/2	8	54	18	380	1,70	40
51	2	9	69	18	500	2,50	40
76	3	10	96	18	750	4,00	40

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AC 107 WASHDOWN
HOT WATER/STEAM HOSE FOOD QUALITY

Application: mandrel built delivery hose for steam cleaning and hot water washdown in dairies, creameries, used also as delivery hose for clean hot water mixed with steam and detergents. Used for washdown and sterilization in the food industry workshops.
Standard/approval: FDA title 21, art. 177.2600 for aqueous foods. Phthalate free. High resistance to many aggressive cleaning agents.

Temperature range: -40°C / +165°C (saturated steam), +95°C (hot water).
Safety factor: steam 10 : 1 - hot water 3 : 1
Tube: white synthetic rubber food quality, resistant to cleaning agents, smooth.
Reinforcements: High strength synthetic plies
Cover: synthetic rubber, blue colour, resistant to heat and abrasion, wrapped fabric impression.
Marking: continuous transfer tape: "ROITER® AC 107 WASHDOWN FOOD QUALITY - WP 7 BAR - MADE IN ITALY".

Internal Diameter		Wall thickness	External Dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
13	1/2	5	23	S.7 / W.18	90	0,42	40
16	5/8	5	26	S.7 / W.18	100	0,50	40
19	3/4	5,5	30	S.7 / W.18	120	0,60	40
25	1	6	37	S.7 / W.18	160	0,80	40
32	1 1/4	7	46	S.7 / W.18	200	1,20	40
38	1 1/2	7	52	S.7 / W.18	240	1,63	40
51	2	8	67	S.7 / W.18	320	2,12	40

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AC 210 - 120°C
HOT WATER HOSE - D

Application: mandrel built delivery hose for hot water mixed with steam (not saturated). Suitable for low pressure washer machines and for anti-freeze liquids. Commonly used for transfer of Ethylene glicol as antifreeze fluid or as a coolant or heat transfer agent.
Note: Also available with tube and cover in white color rubber.

Temperature range: -40°C / +120°C.
Safety factor: 3 : 1
Tube: black smooth EPDM rubber compound
Reinforcement: multiple textile plies.
Cover: synthetic rubber, black, resistant to oil, ozone and weather, wrapped finish, cloth impression.
Marking: continuous transfer tape, "ROITER® AC 210 - HOT WATER - T +120°C - WP 10 BAR- MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
13	1/2	5	23	10	90	0,35	40
16	5/8	5	26	10	105	0,42	40
19	3/4	5,5	30	10	130	0,50	40
25	1	6	37	10	165	0,60	40
32	1 1/4	6	44	10	200	0,90	40
38	1 1/2	7	52	10	300	1,25	40
51	2	7	65	10	350	1,85	40
63,5	2 1/2	7	77,5	10	400	2,52	40
76	3	8	92	10	500	3,10	40
102	4	8	118	10	600	4,50	40

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AC 510 - 120°C

HOT WATER HOSE - S&D
SEMI-CORRUGATED COVER

Application: mandrel built delivery hose for hot water mixed with steam (not saturated).
Suitable for anti-freeze liquids.
Extra flexible hose, thanks to the special corrugated construction, and the helix wire reinforcement.
Designed for cooling systems in industrial engines and power generators.

Temperature range: -40°C / +120°C.
Safety factor: 3 : 1
Tube: black smooth EPDM rubber compound
Reinforcement: high tensile textile plies, helix wire embedded.
Cover: synthetic rubber, black, semi-corrugated, resistant to oil, ozone and weather, wrapped finish, cloth impression.
Marking: continuous transfer tape, "ROITER® AC 510 - HOT WATER +120°C - WP 10 BAR - MADE IN ITALY".

Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
19	3/4	6	31	10	100	0,80	40
25	1	6	37	10	125	0,90	40
32	1 1/4	6	44	10	150	1,07	40
38	1 1/2	7	52	10	200	1,20	40
51	2	7	65	10	250	2,00	40
63	2 1/2	7	77	10	400	2,60	40
76	3	8	92	10	500	3,30	40
102	4	8	118	10	650	5,60	40

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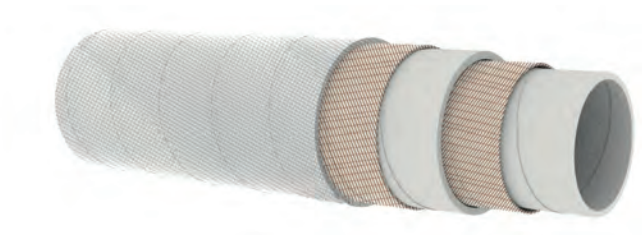
AC 112 GF
WATER COOLING GLASS FIBRE COATED HOSE

Application: mainly used as a cooling or hot water delivery hose in the iron and steel mill plants and glass industry.
Feature: Vulcanised glass fabric cover protects against high external temperatures, radiation heat and sparks.
On request:

AC 112 VCT - outer cover with VERMICULITE treatment, for higher radiation temperature resistance, (up to 800°C).
AC 112 SIL - outer cover made with special silicone impregnated glass fabric, excellent for the releasing and anti-stick properties.
AC 112 GGG - with multiple glass fabric cover.
AC 112 SPL - with outer metal wire spiral reinforcement, for additional protection against abrasion.

Temperature range: -40°C/+120°C, (+600°C radiation temperature).
Safety factor: 3 : 1
Tube: smooth, black (or white non-conductive) synthetic rubber, with special insulating properties and with excellent resistance to heat.
Reinforcement: textile wrapped high tensile fabrics
Cover: Glass fiber braid, vulcanized with an internal layer of compound high temperature resistant and self extinguishing rubber. Resistant to occasional contact with molten materials.
Marking: none.



Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
13	1/2	5	23	12	200	0,35	40
19	3/4	6	31	12	225	0,50	40
25	1	6,5	38	12	300	0,80	40
32	1 1/4	7,5	47	12	320	1,10	40
35	1 3/8	7,5	50	12	350	1,20	40
38	1 1/2	8	54	12	380	1,50	40
51	2	9	69	12	500	2,00	40
63,5	2 1/2	9	81,5	12	620	2,95	40
76	3	9	94	12	750	3,10	40
102	4	10	122	12	1000	5,10	40

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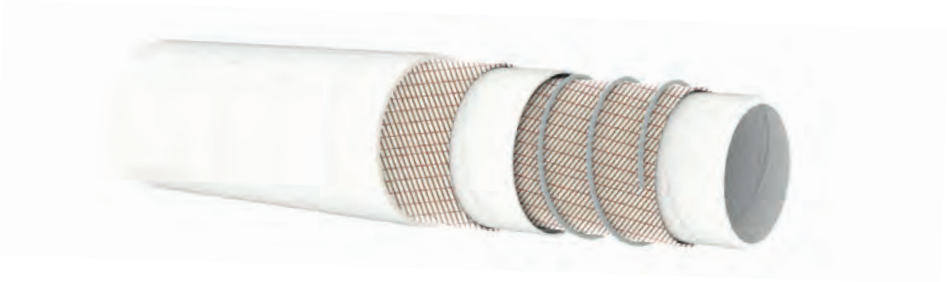
AC 412 GF

WATER COOLING GLASS FIBRE COATED HOSE SPIRAL WIRE REINFORCED

Application: Suction & Delivery hose used for cooling water in very high ambient temperature, as steel mills, foundries, etc.
Feature: Vulcanised glass fabric cover protects against high external temperatures, radiation heat and sparks.
On request:

AC 412 VCT - outer cover with VERMICULITE treatment, for higher radiation temperature resistance, (up to 800°C).
AC 412 SIL - outer cover made with special silicone impregnated glass fabric, excellent for the releasing and anti-stick properties.
AC 412 GGG - with multiple glass fabric cover.

Temperature range: -40°C/+120°C, (+600°C radiation temperature).
Safety factor: 3 : 1
Tube: smooth, black (or white non-conductive) synthetic rubber, with special insulating properties and with excellent resistance to heat.
Reinforcement: Spiral wire, high tensile fabrics
Cover: Glass fiber braid, vulcanized with an internal layer of compound, high temperature resistant.
Marking: None



Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
13	1/2	5	23	12	200	0,40	40
19	3/4	6	31	12	225	0,50	40
25	1	6,5	38	12	300	0,80	40
32	1 1/4	7,5	47	12	320	1,10	40
35	1 3/8	7,5	50	12	350	1,20	40
38	1 1/2	8	54	12	380	1,50	40
51	2	9	69	12	500	2,00	40
63,5	2 1/2	9	81,5	12	620	2,95	40
76	3	9	94	12	750	3,10	40
102	4	10	122	12	1000	5,10	40

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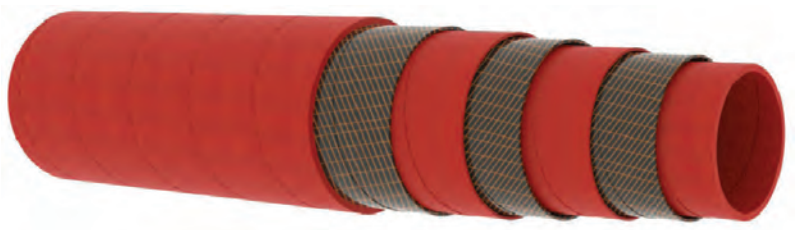
SI 210
SILICONE HOSE - D

Application: Suitable for cooling and heating systems. Delivery hose for hot water and coolant fl ids, used in engine control systems, where resistance to continuous high temperatures is involved. Ideal for the automotive industry and for the cooling system of wind turbines.
Standard/approval: According to EN 45545 and EU Directive 2002/95/EEC
Feature: Flame retardant and low smoke toxicity in case of fire. Excellent flexibility, and compression set. Good resistance to glycol, anti freeze or antirust liquids. Available in coils or straight lengths, or any special shape. Resists hardening, cracking, cold leaks, aging, and many chemicals. Ideal for extreme temperature and various pressure ranges where high performance leves are required.

Temperature range:
- SI 210 P -60°C / +200°C
- SI 210 A -60°C / +250°C

Safety factor: 3 : 1
Tube: Silicone rubber red or white, smooth
Reinforcement: textile wrapped polyester plies (*SI 210 P*) or aramidic *(SI 210 A*) reinforcements.
Cover: Silicone rubber, red (R) or white (W), resistant to high temperatures and fire propagation. Resistant to UV, ozone and external environments. Other colors and diameters available on request.



Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
13	1/2	5	23	13	120	0,30	40
16	5/8	5	26	13	120	0,35	40
19	3/4	5,5	30	13	180	0,43	40
25	1	5,5	36	10	200	0,58	40
32	1 1/4	5,5	43	10	225	0,70	40
38	1 1/2	6	50	10	250	0,85	40
51	2	6	63	10	280	1,00	40
63	3	6	75	10	350	1,30	40

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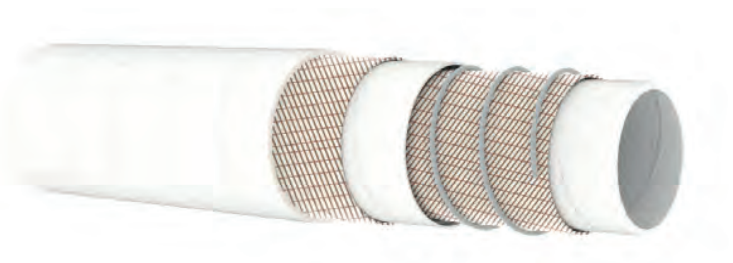
SI 410
SILICONE HOSE - S&D

Application: High temperature suction and delivery flexible hose . Suitable for cooling and heating systems, for hot water and coolant fluids, used in engine control systems, where resistance to continuous high temperatures is involved. Ideal in the automotive and for the cooling system of wind turbines.
Standard/approval: According to EN 45545 and EU Directive 2002/95/EEC
Feature: Flame retardant and low smoke toxicity in case of fire. Excellent flexibility, and compression set. Good resistance to glycol, anti freeze or antirust liquids. Other sizes and colour available on request.

Temperature range:
- SI 410 P -60°C / +200°C
- SI 410 A -60°C / +250°C

Safety factor: 3 : 1
Tube: Silicone rubber white or red, smooth,
Reinforcement: textile wrapped polyester plies (*SI 410P*) or aramidic (*SI 410 A*) reinforcements. Steel wire reinforcement or plastic spiral non conductive reinforcement, on request.
Cover: Silicone rubber, white (W) or red (R), resistant to high temperatures and fire propagation. Resistant to UV, ozone and external environmentals.



Internal dia		Wall thickness	External dia	Working Pressure	Bending radius	Weight approx	Coil length
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*Kg/m*	*(max) m*
13	1/2	5	23	10	90	0,50	20
19	5/8	5,5	30	10	100	0,62	20
25	3/4	5,5	36	10	150	0,74	20
32	1	5,5	43	10	160	0,80	20
38	1 1/4	6	50	10	200	1,10	20
51	1 1/2	6,5	64	10	260	1,70	20
63	2	7	77	10	350	2,15	20
76	3	7,5	91	10	400	2,80	20

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DELTA® Transport system

A suction and delivery hose for the hydraulic transport of abrasive materials, such as gypsum, ashes, bauxite, corundum, dolomite, ores, feldspar, waste glass, wood chips, industrial waste, coal, metallic powder, etc.

DELTA® - AB 510 Premium

Pneumatic transport of abrasive materials

10 Bar

DELTA® - AB 515

Pneumatic transport of abrasive materials

10 Bar

DELTA® - AB 520 Premium

Hydraulic transport of abrasive materials

10 Bar

DELTA® - AB 525

Hydraulic transport of abrasive materials

10 Bar

DELTA® - AB 530 Premium

Hydraulic transport of Chemical abrasive materials

10 Bar

DELTA® - AB 535

Hydraulic transport of Chemical abrasive materials

10 Bar

DELTA® - AB 540 Premium

Pneumatic & Hydraulic transport of Food like abrasive materials

10 Bar

DELTA® - AB 545

Pneumatic & Hydraulic transport of Food like abrasive materials

10 Bar

DELTA® material handling hose is a flexible modular system developed for easy integration into existing installations.

Since the setting up of the **DELTA® transport system** does not need much time, unnecessary downtimes are avoided and thus costs are reduced.

The right choice of elements of the **DELTA® transport system**, makes the transport of a wide range of media possible.

It is sufficient to have regular visual inspections; unlike steel pipes it is not necessary to have a protective coating when used outdoors.

All elements are easy to install. You do not need specially trained staff or special tools.

The metallic flange couplings are reusable. Required hose lengths can be cut on site.

Noise from dry goods transmitted through steel pipes can be significantly reduced when converting to the **DELTA® transport system**.

The energy absorbing characteristics of the rubber tube, greatly reduces noise levels, this is especially true on indoor applications, where noise is retained within the building.

In order to significantly extend service life, the hose can be rotated along it`s axis, by loosening the flange bolts. Especially with dry media it is benefitial on bends, where the hose is subject to high levels of abrasion.

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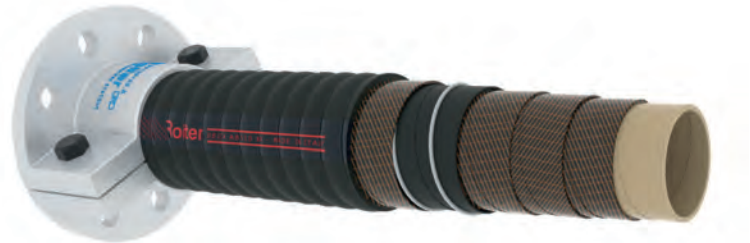
DELTA AB 510 - Premium
PNEUMATIC TRANSPORT OF ABRASIVE MATERIALS

Application: The original Suction and delivery hose for the transport of abrasive media, with the premium long lasting rubber compounds.
A suction and delivery hose for the transport of abrasive materials, such as gypsum, ashes, bauxite, corundum, dolomite, ores, feldspar, waste glass, wood chips, industrial waste, coal, metallic powder, etc.

Temperature range: -35°C/+70°C
Safety factor: 3,2 : 1
Tube: NR, light tone, wear resistant and elastic, non conductive.
Reinforcement: Textile, steel wire helix.
Cover: CR Black, corrugated, resistant to abrasion, oil, weather and sea water, cloth impression, electrically conductive.
Marking: continuous layline, red "ROITER® DELTA AB 510 PREMIUM - MADE IN ITALY".



Vacuum: -0.9 bar up to 203, others -0.5 bar

Internal dia		Wall thickness	External dia	Work Pressure	Number of inserts	Bending radius	Weight approx	Coil lenght
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*(min) mm*	*Kg/m*	*(max) m*
51	2	12	75	10	2	300	3,0	40
82	3	16	114	10	2	350	7,5	40
102	4	15,5	133	10	2	500	8,0	40
114	4 1/2	13	162	10	4	600	10,5	40
127	5	17,5	162	10	4	650	12,0	20
152	6	18	188	10	4	750	14,0	20
203	8	19	241	10	4	1750	18,0	12
254	10	19	292	10	4	2000	22,0	12
305	12	21,5	348	10	6	2500	28,0	12
355	14	27	409	10	8	3000	37,0	12
405	16	26,5	458	10	8	3500	47,0	12
457	18	27,5	512	10	10	4500	55,0	12

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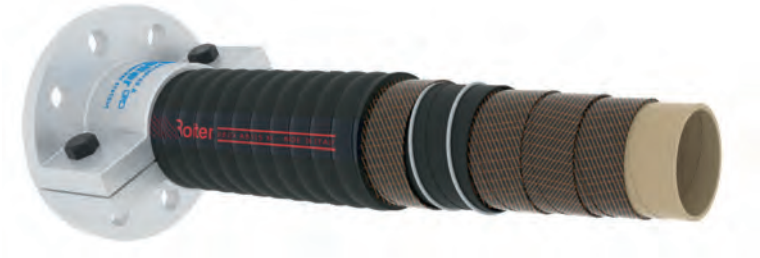
DELTA AB 515
PNEUMATIC TRANSPORT OF ABRASIVE MATERIALS

Application: A fuction and delivery hose for the hydraulic transport of abrasive materials, such as gypsum, ashes, bauxite, corundum, dolomite, ores, feldspar, waste glass, wood chips, industrial waste, coal, metallic powder, etc.

Temperature range: -35°C / +70°C
Safety factor: 3,2 : 1
Tube: NR, light tone, wear resistant and elastic, non conductive.
Reinforcement: Textile steel wire helix.
Cover: EPDM black**,** corrugated, resistant to abrasion, weather and sea water, cloth impression, electrically conductive.
Marking: continuous layline, red "ROITER® DELTA AB 515 - MADE IN ITALY".



Vacuum: -0.9 bar up to 203, others -0.5 bar

Internal dia		Wall thickness	External dia	Work Pressure	Number of inserts	Bending radius	Weight approx	Coil lenght
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*(min) mm*	*Kg/m*	*(max) m*
51	2	12	75	10	2	300	3,0	40
82	3	16	114	10	2	350	7,5	40
102	4	15,5	133	10	2	500	8,0	40
114	4 1/2	13	162	10	4	600	10,5	40
127	5	17,5	162	10	4	650	12,0	20
152	6	18	188	10	4	750	14,0	20
203	8	19	241	10	4	1750	18,0	12
254	10	19	292	10	4	2000	22,0	12
305	12	21,5	348	10	6	2500	28,0	12
355	14	27	409	10	8	3000	37,0	12
405	16	26,5	458	10	8	3500	47,0	12
457	18	27,5	512	10	10	4500	55,0	12

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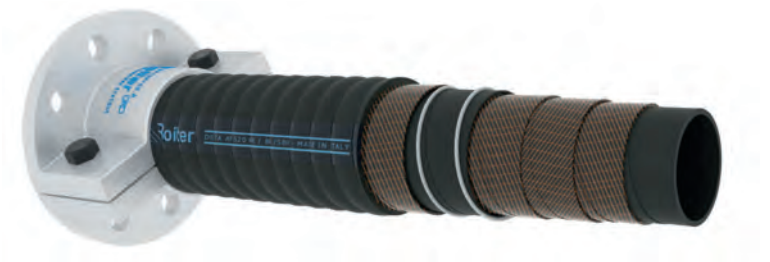
DELTA AB 520- Premium
HYDRAULIC TRANSPORT OF ABRASIVE MATERIALS

Application: The original Suction and delivery hose for the transport of abrasive media, with the Premium long lasting Rubber compounds Tube & Cover.
Premium suction and delivery hose for conveying abrasive materials, such as cement, sand, phosphates, quartz, dolomite, glass splinters, dry mixed animal food, grain, bark, wood shavings, etc. pneumatically and hydraulically.
Average wear of the tube 36 mm^3 (according to DIN ISO 4649:2014)

Temperature range: -35°C / +80°C
Safety factor: 3,2 : 1
Tube: NR/BR/SBR, antistatic abrasion-resistant.
Reinforcement: Textile, steel wire helix.
Cover: CR Black, corrugated, resistant to abrasion, weather and sea water, cloth impression, electrically conductive.
Marking: continuous layline, blue "ROITER DELTA AB 520 PREMIUM - MADE IN ITALY".



âVacuum: -0.9 bar up to 203, others -0.5 bar

Internal dia		Wall thickness	External dia	Work Pressure	Number of inserts	Bending radius	Weight approx	Coil lenght
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*(min) mm*	*Kg/m*	*(max) m*
51	2	12	75	10	2	300	3,0	40
82	3	16	114	10	2	350	7,5	40
102	4	15,5	133	10	2	500	8,0	40
114	4 1/2	13	162	10	4	600	10,5	40
127	5	17,5	162	10	4	650	12,0	20
152	6	18	188	10	4	750	14,0	20
203	8	19	241	10	4	1750	18,0	12
254	10	19	292	10	4	2000	22,0	12
305	12	21,5	348	10	6	2500	28,0	12
355	14	27	409	10	8	3000	37,0	12
405	16	26,5	458	10	8	3500	47,0	12
457	18	27,5	512	10	10	4500	55,0	12

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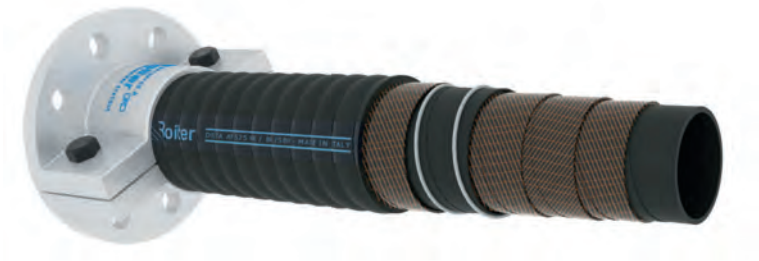
DELTA AB 525
HYDRAULIC TRANSPORT OF ABRASIVE MATERIALS

Application: Premium suction and delivery hose for conveying abrasive materials, such as cement, sand, phosphates, quartz, dolomite, glass splinters, dry mixed animal food, grain, bark, wood shavings, etc. pneumatically and hydraulically. Average wear of the tube 50 mm3 (according to DIN ISO 4649:2014).

Temperature range: -35°C / + 80°C
Safety factor: 3,2 : 1
Tube: NR/BR/SBR, antistatic abrasion-resistant.
Reinforcement: Textile, steel wire helix.
Cover: EPDM Black corrugated, resistant to abrasion, weather and sea water, cloth impression, electrically conductive.
Marking: continous layline, blue "ROITER DELTA AB 525 - MADE IN ITALY".



Vacuum: -0.9 bar up to 203, others -0.5 bar

Internal dia		Wall thickness	External dia	Work Pressure	Number of inserts	Bending radius	Weight approx	Coil lenght
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*(min) mm*	*Kg/m*	*(max) m*
51	2	12	75	10	2	300	3,0	40
82	3	16	114	10	2	350	7,5	40
102	4	15,5	133	10	2	500	8,0	40
114	4 1/2	13	162	10	4	600	10,5	40
127	5	17,5	162	10	4	650	12,0	20
152	6	18	188	10	4	750	14,0	20
203	8	19	241	10	4	1750	18,0	12
254	10	19	292	10	4	2000	22,0	12
305	12	21,5	348	10	6	2500	28,0	12
355	14	27	409	10	8	3000	37,0	12
405	16	26,5	458	10	8	3500	47,0	12
457	18	27,5	512	10	10	4500	55,0	12

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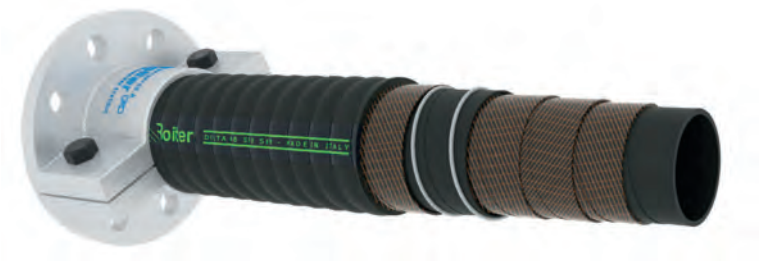
DELTA AB 530 - Premium CHEMICAL

HYDRAULIC TRANSPORT OF ABRASIVE MATERIAL

Application: The original Suction and delivery hose for the transport of chemical abrasive media, with the premium long lasting rubber compounds.
A suction and delivery hose for conveying solid substances contained in liquids, especially corrosive substances, strong mineral acids and bases sulphure and phosphates, sea water & saline solutions, hypochlorites, alcohols, hydrofluoric acid, mineral oils and aliphatic hydrocarbons (up to 45%). Ideal for transfer of not refined acids containing abrasive particles.

Temperature range: -35°C / +125°C
Safety Factor: 3:1
Tube: CSM (Hypalon®) black conductive.
Reinforcement: Textile wrapped, steel wire helix.
Cover: CR black corrugated, resistant to abrasion, weather and sea water,cloth impression.
Marking: continuous layline green colour: "ROITER DELTA AB 530 PREMIUM CHEMICAL - MADE IN ITALY"



Vacuum: -0.9 bar up to 203, others -0.5 bar

Internal dia		Wall thickness	External dia	Work Pressure	Number of inserts	Bending radius	Weight approx	Coil lenght
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*(min) mm*	*Kg/m*	*(max) m*
51	2	12	75	10	2	300	3,0	40
82	3	16	114	10	2	350	7,5	40
102	4	15,5	133	10	2	500	8,0	40
114	4 1/2	13	162	10	4	600	10,5	40
127	5	17,5	162	10	4	650	12,0	20
152	6	18	188	10	4	750	14,0	20
203	8	19	241	10	4	1750	18,0	12
254	10	19	292	10	4	2000	22,0	12
305	12	21,5	348	10	6	2500	28,0	12
355	14	27	409	10	8	3000	37,0	12
405	16	26,5	458	10	8	3500	47,0	12
457	18	27,5	512	10	10	4500	55,0	12

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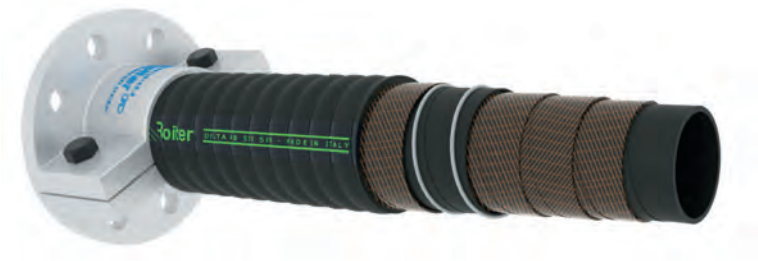
DELTA AB 535 CHEMICAL
HYDRAULIC TRANSPORT OF ABRASIVE MATERIAL

Application: A suction and delivery hose for conveying solid substances contained in liquids, especially corrosive substances, strong mineral acids and bases sulphure and phosphates, sea water & saline solutions, hypochlorites, alcohols, hydrofluoric acid, mineral oils and aliphatic hydrocarbons (up to 45%). Ideal for transfer of not refined acids containing abrasive particles.

Temperature range: -35 /+ 125°C
Safety Factor: 3 :1
Tube: CSM (Hypalon®) black conductive.
Reinforcement: Textile wrapped, steel wire helix.
Cover: EPDM blackcorrugated resistant to abrasion, weather and sea water, cloth impression.
Marking: continuous layline, green "ROITER® DELTA AB 535 CHEMICAL - MADE IN ITALY".



Vacuum: -0.9 bar up to 203, others -0.5 bar

Internal dia		Wall thickness	External dia	Work Pressure	Number of inserts	Bending radius	Weight approx	Coil lenght
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*(min) mm*	*Kg/m*	*(max) m*
51	2	12	75	10	2	300	3,0	40
82	3	16	114	10	2	350	7,5	40
102	4	15,5	133	10	2	500	8,0	40
114	4 1/2	13	162	10	4	600	10,5	40
127	5	17,5	162	10	4	650	12,0	20
152	6	18	188	10	4	750	14,0	20
203	8	19	241	10	4	1750	18,0	12
254	10	19	292	10	4	2000	22,0	12
305	12	21,5	348	10	6	2500	28,0	12
355	14	27	409	10	8	3000	37,0	12
405	16	26,5	458	10	8	3500	47,0	12
457	18	27,5	512	10	10	4500	55,0	12

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DELTA AB 540 - Premium

PNEUMATIC AND HYDRAULIC TRANSPORT OF SOLID AND DUST-LIKE FOOD STUFFS

Application: The original Suction and delivery hose for the transport of abrasive media, with the premium long lasting rubber compounds.
A suction and delivery hose for conveying solid and dust like food stuffs, such as animal feed, silo products, grain, light coloured plastic granulates and oil-laden substances, etc., pneumatically and hydraulically.

Temperature range: -35°C / + 80°C
Safety Factor: 3,2 : 1
Tube: NBR White, Food quality, antistatic, abrsion resistant.
Reinforcement: Textile wrapped, steel wire helix.
Cover: CR black, corrugated, resistant to abrasion, oil, weather and sea water, cloth impression electrically conductive.
Marking: continuous layline, white " ROITER® DELTA AB 540 PREMIUM- NBR FOOD QUALITY - MADE IN ITALY"

Vacuum: -0.9 bar up to 203, others -0.5 bar

Internal dia		Wall thickness	External dia	Work Pressure	Number of inserts	Bending radius	Weight approx	Coil lenght
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*(min) mm*	*Kg/m*	*(max) m*
51	2	12	75	10	2	300	3,0	20
82	3	16	114	10	2	350	7,5	20
102	4	15,5	133	10	2	500	8,0	20
114	4 1/2	13	162	10	4	600	10,5	20
127	5	17,5	162	10	4	650	12,0	20
152	6	18	188	10	4	750	14,0	20
203	8	19	241	10	4	1750	18,0	12
254	10	19	292	10	4	2000	22,0	12
305	12	21,5	348	10	6	2500	28,0	12
355	14	27	409	10	8	3000	37,0	12
405	16	26,5	458	10	8	3500	47,0	12
457	18	27,5	512	10	10	4500	55,0	12

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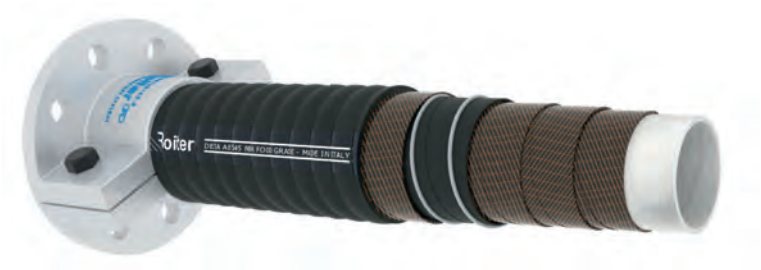
DELTA AB 545

PNEUMATIC AND HYDRAULIC TRANSPORT OF SOLID AND DUST-LIKE FOOD STUFFS

Application: A suction and delivery hose for conveying solid and dust-like food stuffs, such as animal feed, silo products, grain, light coloured plastic granulates and oil-laden substances, etc, pneumatically and hydraulically.

Temperature range: -35°C / +80°C
Safety Factor: 3,2 : 1
Tube: NBR White, Food quality, antistatic, abrasion resitant.
Reinforcement: Textile, wrapped, steel wire helix.
Cover: EPDM Black, corrugated, resist to abrasion, weather and sea water, cloth impression, electrically conductive.
Marking: continuous layline, white "ROITER® DELTA AB 545 - NBR FOOD QUALITY - MADE IN ITALY".



Vacuum: -0.9 bar up to 203, others -0.5 bar

Internal dia		Wall thickness	External dia	Work Pressure	Number of inserts	Bending radius	Weight approx	Coil lenght
mm	*inch*	*mm*	*mm*	*(max) bar*	*(min) mm*	*(min) mm*	*Kg/m*	*(max) m*
51	2	12	75	10	2	300	3,0	20
82	3	16	114	10	2	350	7,5	20
102	4	15,5	133	10	2	500	8,0	20
114	4 1/2	13	162	10	4	600	10,5	20
127	5	17,5	162	10	4	650	12,0	20
152	6	18	188	10	4	750	14,0	20
203	8	19	241	10	4	1750	18,0	12
254	10	19	292	10	4	2000	22,0	12
305	12	21,5	348	10	6	2500	28,0	12
355	14	27	409	10	8	3000	37,0	12
405	16	26,5	458	10	8	3500	47,0	12
457	18	27,5	512	10	10	4500	55,0	12

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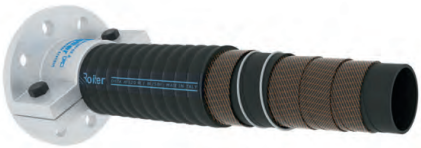
DELTA®

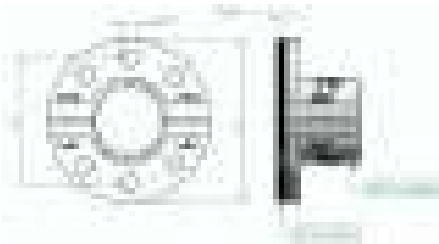
TRANSPORT SYSTEM ELEMENTS

1. ROITER DELTA® Original Suction & Delivery Hose



2. ROITER DELTA® COUPLINGS

3.ROITER DELTA® GASKETS



1. DELTA Hose General Data DELTA AB510/515-AB520/525-AB530/535-AB540/545				2. DELTA Coupling			3. DELTA Gasket		
INNER Diameter		OUTER Diameter	Length	F (External Diameter)	K (Center to Center)	Flange Holes	F (External Diameter)	K (Center to Center)	Thickness
mm	*inch*	*mm*	*mt*	*mm*	*mm*	*nr/mm*	*mm*	*mm*	*mm*
51	2	75	40	165	125	6 x 18	165	125	8
53; 60; 63,5	2,2/32; 2,3/8; 2,1/2	88	40	185	145	6 x 18	185	145	8
70	2,3/4	98	40	185	145	6 x 18	185	145	8
75; 82	3; 3,1/4	114	40	200	160	6 x 18	200	160	8
90; 102; 108	3,1/2; 4; 4,1/4	132	40	220	180	6 x 18	220	180	8
114; 127; 133	4,1/2; 5; 5,1/4	162	20	250	210	6 x 18	250	210	8
140	5,1/2	176	20	285	240	6 x 22	285	240	8
152	6	188	20	285	240	6 x 22	285	240	8
178	7	215	20	315	270	8 x 22	315	270	8
203	8	241	12	340	295	8 x 22	340	295	8
254	10	292	12	395	350	12 x 22	395	350	12
305	12	348	12	445	400	12 x 22	445	400	12
340	13,3/8	389	12	505	460	16 x 22	505	460	12
355	14	409	12	505	460	16 x 22	505	460	12
388	15,1/4	440	12	565	515	16 x 26	565	515	12
405	16	458	12	565	515	16 x 26	565	515	12
457	18	512	12	615	565	20 x 26	615	565	12

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PERISTALTIC
PERISTALTIC PUMP HOSES

Application: softwall rubber hose, especially designed to be used on peristaltic pumps. Designed to convey any type of fluid at any density, particularly suitable in case of pumping fluids that can't be contaminated, as happens using traditional pumps.

According to specific fluid to be conveyed, various type of Peristaltic pump hose can be available:

- food stuffs
- fatty foods or oils;
- acids & solvents;
- abrasive fluids

Temperature range: depending on type of compound.
Tube: NR black, NR FOOD Approved, EPDM, NBR electrically conductive, EPDM, HYPALON, VITON. Smooth, available with enlarged ends.
Reinforcement: textile wrapped, high tensile synthetic cord
Cover: NR black, EPDM, NBR, cloth impression, abrasion resistant rubber. on request, grinded outside diameter.
Marking: on request.
Notes: Available with special rubber compounds for applications in chemical, pharmaceutical, food and beverage and building industries; oil resistant compounds are also available.

- Internal diameters, wall thickness and hose lenghts, always depends form type of pump and application. Please contact our Roiter Technical Department for the right choice of the hose.
- Available in all sizes up to 152 mm internal diameter.
- All Peristaltic Pump Hose, are manufactured according to the customer requirements, and all hoses are supplied in application lenghts ready to be installed.
- Peristaltic Pump Hoses, are available with grinded cover, rectified for extra precision and smoothness.
- Standard working pressures available form 5 to 15 bar, for higher pressures contact the Roiter Technical Department. Detailed data sheets available on request.

Principle of operation of a peristaltic pump: Peristaltic pumps are used to pump a wide variety of fluids. The fluid is contained inside the hose, which is installed inside the pump. The operating principle, called peristalsis, is based on the alternating phase compression and decompression of the tube wall, which has the effect of sucking the liquid and pushing the fluid contained inside. A bearing, or rotating roller, passes the length of the tube, creating a temporary seal between the suction and discharge sides of the pump. as the pump rotor rotates, this sealing pressure moves along the tube, forcing the liquid to advance towards the drain. When the pressure is released, the hose recovers to its original size, creating a vacuum that draws new fluid into the suction side of the pump. The combination of these suction and delivery principles results in a powerful self-priming positive displacement action.

No contamination of the fluid: The pumped liquid never comes into contact with any internal part of the pump because it is completely contained in the tube, also thanks to this principle, this makes the peristaltic pump an ideal pumping solution for hygienic and contamination-free solutions. Maintenance is also reduced, as the tube is the only consumable part, and can be easily replaced.
Advantages of Peristaltic Pumps: Each peristaltic pump is equipped with a flexible specific hose, with high abrasion resistance and easy transfer of product, high viscosity fluids, or density. Despite the large pumping capacity, the action of the pump is extremely delicate and this makes it suitable for pumping sensitive and delicate products, such as live fish in the fish farming sector. The pump flow rate is proportional to the rotation speed and the pipe diameter. It can therefore be used both, in laboratories or for mining applications.

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PERISTALTIC PUMP HOSES

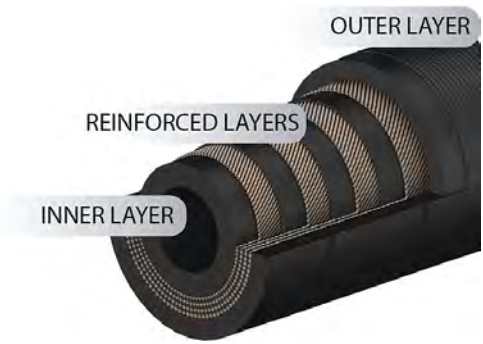
Application: The peristaltic pump hoses are specifically engineered for application on peristaltic pumps. Are designed and manufactured for long operational life and minimized cost.The peristaltic pump hoses are suitable to convey various fluids:

1) abrasive fluids
2) acids
3) liquid food
4) oily and fatty foods

in many type of industry, as Chemical, Food and Pharma, Mining and Fish indutries.
Feature: Extremely durable; High abrasion, ozone & weather resistance.The lowest possible friction between the hose and roller
Tube: Black and smooth rubber compound
Reinforcement: Multiply heavy duty synthetic cord
Cover: Black synthetic rubber; Wrapped
Temperature: -40°C to +100°C
Note: on request it is possible to grind the external diameter to specific diameters and tolerances.

AVAILABLE HOSE LINER MATERIALS

NATURAL RUBBER (NR): A generai purpose material with excellent mechanical and abrasion resistant properties. Suitable for all water-based applications and mild acids, alkalis or oxidising agents.
Also availaible in the FOOD GRADE version.
Max. fluid temperature: 80 °C Min. temperature: -20 °C
NITRILE (NBR): Acrylonitrile butadiene rubber. A durable materiai resistant to oils, greases, alkalis and detergents. Compliant to European BfR standards, this liner can also be used in a wide range of applications in the food industry.
Max. fluid temperature: 80 °C Min. temperature: -10 °C
EPDM: Ethylene propylene diene rubber. Excellent chemical resistance, especially to ketones, esters, alcohols and concentrated acids.
Max. fluid temperature: 90 °C Min. temperature: -10 °C
FKM (VITON®) : FKM's or fluoroelastomers, are a family of elastomers with resistance to a broad range of chemicals combined with very good high temperature properties. Specialty types with differing monomer compositions and fluorine content are tailored for superior fluid resistance. Max. fluid temperature: 100 °C Min. temperature: -40 °C



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COUPLINGS

TYPE	MATERIAL	DESCRIPTION	ASSEMBLY	Recommended WP
SMS 1145 	STAINLESS STEEL AISI 316	Fittings for food and beverage application, SMS couplings supplied with serrated or smooth hose shank with collar. SMS are not interchangeable with DIN 11851 couplings.	SMS can be crimped with serrated ferrule or assembled with EN 14420 safety clamps.	6 BAR
DIN 11851 	STAINLESS STEEL AISI 316	Fittings for food and beverage application, they can be supplied with serrated or smoth hose shank with collar. SMS are not interchangeable with SMS couplings.	DIN 11851 can be crimped with serrated ferrule or assembled with EN 14420 safety clamps.	40 BAR
TRICLAMP 	STAINLESS STEEL AISI 316	Symmetrical sanitary fittings for food and beverage application. Triclamp couplings can be supplied with serrated or smoth hose shank	TRICLAMP couplings can be crimped with serrated ferrule or assembled with EN 14420 safety clamps. TRICLAMP couplings are connected together with clamp rings.	16 BAR
ENO GAROLLA 	STAINLESS STEEL AISI 316	Symmetrical fittings for enological application, mainly used in Italy	ENO GAROLLA couplings can be crimped with serrated ferrule or assembled with EN 14420 safety clamps. ENO GAROLLA couplings are connected together with clamp rings	10 BAR
MACON 	STAINLESS STEEL AISI 316	Symmetrical fittings for enological application, mainly used in France.	MACON couplings can be crimped with serrated ferrule or assembled with EN 14420 safety clamps.	10 BAR
CAMLOCK 	STAINLESS STEEL AISI 316 ALUMINIUM BRASS POLYPROPYLENE	Quick Connect coupling system used in a lot of industrial applications. Suitable to convey water, hot water, fuels, chemicals, foodstuffs and many others. No suitable to convey steam and gas.	CAMLOCKS can be assembled with crimping ferrule, clamps and BAND-IT. CAMLOCK EN 14420 can be assembled with SAFETY CLAMPS 14440 / DIN 2817.	17 BAR
GUILLEMIN 	STAINLESS STEEL AISI 316 ALUMINIUM BRASS	Symmetric coupling system used to covey liquid food, chemicals, hydrocarbons, hot air, water and abrasive powder and granules.	GUILLEMIN can be assembled with SAFETY CLAMPS or crimping ferrules	16 BAR

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COUPLINGS

TYPE	MATERIAL	DESCRIPTION	ASSEMBLY	Recommended WP
STORZ 	ALUMINIUM	Symmetric coupling system for transferring water, abrasive powder and granulates and in fire fighting application.	STORZ can be assembled with clamps, BAND-IT and crimping ferrule.	16 BAR
HOSE SHANK 	STAINLESS STEEL AISI 316 BRASS	Threaded coupling system for fuel and chemical application. Male threaded or female threaded: - BSPP / BSPT - NPT - DIN2817	Hose shanks are available with serrated shank, assembled with ferrule by crimping, or smooth shank, assembled with safety clamps DIN 2817 / EN 14440.	25 BAR
TANKWAGEN 1420 	STAINLESS STEEL AISI 316 BRASS	Rapid coupling system for fuel and chemical applications. Type MK (Female) Type VK (Male) Type Italian Rapid (CUNA)	Available with serrated shank or with BSPP screw	25 BAR
MORTAR 	MALLEABLE IRON	Asymmetric coupling system similar to CAMLOCK for plaster machine.	MORTAR can be assembled with crimping ferrule. They can not be assembled with CAMLOCKS	50 BAR
SANDBLAST 	MALLEABLE IRON BRASS NYLON	Symmetric coupling system used on blasting machine	SANDBLAST couplings are fixed with screw on the outer diameter of the hose.	40 BAR
CONCRETE 	GALVANIZED STEEL CARBONITRITED	Symmetric coupling system used for concrete pumping: -VICTAULIC style -SCHWING style -SHOULDERED style	VICTAULIC fitting are assembled with crimping ferrules	100 BAR
FLANGES 	CARBON STEEL STAINLESS STEEL 304/316	Used in many industrial of Marine applications. Available in UNI/ANSI/BS/JIS or other standards with different pressure rating. Supplied in Fix or Swivel version.	Can be assembled by swaging / crimping or built-in.	15/25/40 BAR

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COUPLINGS

TYPE	MATERIAL	DESCRIPTION	ASSEMBLY	Recommended WP
TYPE B-BAUER 	PLATED STEEL	Coupling system used for agricolture, construction and mining application	TYPE B-BAUER couplings are assembled with BAND-IT and clamps or swaged/crimped.	20 BAR
TYPE C-CARDAN 	PLATED STEEL	Asymmetric coupling system used for agricolture, construction and mining application	TYPE C-CARDAN / PERROT couplings are assembled with BAND-IT and clamps or swaged/crimped.	20 BAR
EXPRESS NFE 59-573 	BRASS STAINLESS STEEL AISI 316	Symmetric coupling system used for air and water application. Available with serrated shank, or male/female threaded BSPP	EXPRESS couplings are assembled with express clamps and worm gear clamps. Can be crimped with ferrules. Not interchangeable with GEKA.	10 BAR
EU/US TYPE/GEKA 	PLATED STEEL BRASS	Symmetric coupling system used for air and water application: - EUROPEAN AIR DIN 3489 Plated steel - US AIR COUPLINGS Plated steel - GEKA Couplings Brass	Symmetric couplings are assembled with BAND-IT and worm gear clamps or by crimping ferrules. They are not interchangeable each others. Can be crimped with ferrules.	10 BAR
EN14423/DIN 2826 	STAINLESS STEEL PLATED STEEL BRASS	Coupling system for saturated steam up to 210 °C application.	EN 14423 / DIN 2826 are assembled with EN 14423 / DIN 2826 safety clamps.	18 BAR
STEAM BOSS 	CARBON STEEL	Three parts coupling system with hose shank or thread, for steam up to 210 °C application.	STEAM BOSS couplings are assembled with BOSS safety bolt clamps.	18 BAR
DELTA® FLANGES 	ALUMINIUM	Half shell coupling system with flanges suitable for material handling.	Half flanges are expecially designed to fit with the DELTA cover. A gasket is put beetween the flanges and they are connected together with bolts.	10 BAR

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FERRULES & CLAMPS

TYPE		MATERIAL
SAFETY CLAMP **DIN 2817 /** **EN14430-3**		STAINLESS STEEL AISI 304 ALUMINIUM
CRIMPING **FERRULES**		GALVANIZED STEEL STAINLESS STEEL ALUMINIUM
SAFETY BOLT **BOSS CLAMPS**		PLATED STEEL
SAFETY CLAMPS **DIN 2826 /** **EN 14423**		STAINLESS STEEL AISI 304 BRASS

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Resistance Chart

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MEDIUM	SBR	NR	EPDM	EPR	IIR	CR	NBR	CSM	FKM	PE-X	UHMWPE	PFA-FEP
Acetaldehyde	3	2	2	1	2	2	3	3	3	1	1	1
Acetic Acid 10%	2	2	1	1	1	2	3	2	2	1	1	1
Acetic Acid 50%	3	3	2	1	2	2	3	2	2	1	1	1
Acetic Acid, glacial	3	3	2	1	2	3	3	3	3	1	1	1
Acetic Anidride	3	3	2	2	2	3	3	2	3	1	1	1
Acetone	3	3	1	1	1	3	3	3	3	1	1	1
Acetone cyanohidrin	-	-	1	1	2	-	-	-	-	1	1	1
Acetophenone	-	-	2	1	2	-	-	-	-	1	1	1
Acetyl Acetone	3	3	1	1	2	3	3	3	3	1	1	1
Acetyl chloride	3	3	2	2	2	3	3	3	1	1	2	1
Acetylene	1	1	1	1	1	2	1	1	1	1	1	1
Acetylene dichloride	3	3	3	3	3	3	3	3	1	1	2	1
Acqua regia	-	-	-	-	-	-	-	-	2	3	3	1/2
Acrolein	3	3	2	2	2	-	-	2	1	1	2	1
Acrylonitrile	-	-	3	3	3	-	-	-	3	1	2	1
Adipic acid	2	-	2	1	2	2	-	-	-	1	1	1
Air 160 °C	3	3	2	1	2	2	3	3	3	3	3	1
Air 60°C	1	1	1	1	1	1	1	1	1	1	1	1
Allyl acetate	-	-	-	-	-	-	-	-	2	1	1	1
Allyl Alcohol	1	1	1	1	1	-	1	1	1	1	1	1
Allyl bromide	-	-	-	-	-	-	-	-	2	1	2	1
Allyl chloride	-	-	-	-	-	-	-	-	2	1	2	1
Aluminium acetate	2	2	1	1	2	2	3	2	-	1	1	1
Aluminium chloride	1	1	1	1	1	1	1	1	1	1	1	1
Aluminium fluoride	1	2	1	1	1	1	1	1	2	1	1	1
Aluminium hydroxide	2	1	-	1	1	1	-	2	2	1	1	1
Aluminium nitrate	1	1	1	1	1	-	1	1	1	1	1	1
Aluminium sulfate	1	1	1	1	1	1	1	1	1	1	1	1
Aminobenzene	-	-	-	-	-	-	-	-	-	1	2	1
Aminoethanol	2	2	1	1	1	-	2	2	-	1	1	1
Ammonia anhydrous	3	3	3	3	3	3	3	3	-	2	2	1/2
Ammonia sol. 10%	2	2	1	1	1	1	-	1	-	1	1	1
Ammonia sol. 50%	2	2	1	1	1	-	1	1	-	1	1	1
Ammonium chloride	1	1	1	1	1	1	1	1	2	1	1	1
Ammonium hidroxide	2	2	2	1	-	1	-	2	3	1	1	1
Ammonium nitrate	2	2	1	1	1	1	1	1	-	1	1	1
Ammonium phosphate	1	1	1	1	1	1	1	1	-	1	1	1
Ammonium sulphate	1	1	1	1	1	1	1	1	-	1	1	1
Ammonium sulphite	1	1	1	1	1	-	-	1	-	1	1	1
Ammonium thiosulph.	1	1	1	1	1	-	-	1	-	1	1	1
Amyl acetate	3	3	3	3	2	2	-	-	-	1	1	1
Amyl acetone	3	3	3	3	3	3	-	-	-	1	1	1
Amyl alcohol	2	2	2	1	2	-	-	-	-	1	1	1
Amyl bromide	3	3	2	2	-	-	-	-	-	1	1	1
Amyl chloride	3	3	2	2	-	-	-	-	-	1	1	1
Amyl oleate	-	-	-	-	-	-	1	-	-	1	1	1
Amyl phenol	-	-	-	-	-	-	-	-	1	1	1	1
Amyl phthalate	-	-	2	1	2	-	-	-	2	1	1	1
Amylamine	2	2	2	1	1	-	-	-	-	1	1	1
Amylamine	2	2	-	1	2	-	-	3	-	1	1	1
Anethole	3	3	3	3	3	-	3	-	2	2	3	1
Aniline	3	3	2	1	2	-	-	-	2	1	1	1
Animal fats	3	3	3	3	1/2	2	1	2	1	1	1	1
Antimony pentachlorid	-	-	-	-	-	-	-	-	-	1	1	1
Aromatic tar	-	-	-	-	-	-	2	-	1	1	2	1
Arsenic acid	2	2	1	1	1	2	2	1	1	1	1	1
Ascorbic acid	-	-	-	1	-	-	-	-	-	1	1	1
Asphalt 130°C	-	-	-	-	-	-	3	-	2	3	3	1/2
Asphalt 80°C	-	-	-	-	-	-	1	-	1	3	2	1
ASTM FUEL A	3	3	3	3	3	3	1	2	1	1	1	1
ASTM FUEL B	3	3	3	3	3	3	1	2	1	1	1	1
ASTM FUEL C	3	3	3	3	3	3	1	3	1	2	2	1
ASTM OIL n°1	3	3	3	3	3	1	1	2	1	1	1	1
ASTM OIL n°2	3	3	3	3	3	2	1	2	1	1	1	1
ASTM OIL n°3	3	3	3	3	3	3	1	2	1	1	1	1
Banana oil	3	3	3	3	2	2	1	2	1	1	1	1
Barium carbonate	1	1	1	1	1	1	1	1	1	1	1	1
Barium chloride	1	1	1	1	1	1	1	1	1	1	1	1
Barium hydroxide	1	1	1	1	1	1	1	1	1	1	1	1

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"1" = GOOD, "2" =SHORT SERVICE LIFE, "3" = NOT GOOD, "-" = NO INFORMATION

MEDIUM	SBR	NR	EPDM	EPR	IIR	CR	NBR	CSM	FKM	PE-X	UHMWPE	PFA-FEP
Barium sulfide	1	1	1	1	1	1	1	1	1	1	1	1
Beer	2	1	2	2	1	2	2	2	2	1	1	1
Beet sugar liquors	2	1	2	2	1	2	2	2	2	1	1	1
Benzal chloride	-	-	-	2	-	-	-	-	-	1	1	1
Benzaldehyde	3	3	2	1	2	-	3	-	-	1	1	1
Benzene	3	3	3	3	3	3	3	3	1	1	2	1
Benzene carboxylic ac.	-	-	-	-	-	-	-	-	1	1	1	1
Benzene sulfon ac.10%	-	-	-	-	-	-	-	-	1	1	1	1
Benzine petrol ether	3	3	3	3	3	3	1	3	1	1	1	1
Benzine petrol naphtha	3	3	3	3	3	3	1	3	1	1	1	1
Benzoic acid	3	3	3	3	3	3	-	2	1	1	1	1
Benzoic aldehyde	3	3	2	1	2	-	-	-	-	1	1	1
Benzotrichloride	-	-	-	-	-	-	-	-	-	2	3	1
Benzyl acetate	3	3	3	2	2	-	-	-	3	1	2	1
Benzyl alcohol	3	3	3	2	3	3	-	-	1	1	1	1
Benzyl chloride	-	-	-	2	-	-	-	-	2	1	2	1
Bichromate of soda	-	-	-	2	-	-	-	-	-	1	1	1
Black sulphate liquor	-	-	-	1	1	1	-	-	1	1	1	1
Bleach (2.12% clorine)	-	-	-	2	-	-	-	-	2	1	2	1
Bordeaux mixture	-	-	1	1	1	-	-	1	1	1	1	1
Boric acid	1	-	1	1	1	1	-	1	1	1	1	1
Brine	1	1	1	1	1	1	-	1	1	1	1	1
Bromic acid	-	-	-	-	-	-	-	-	2	3	3	1/2
Bromine	3	3	3	3	3	3	3	3	2	3	3	1/2
Bromobenzene	3	3	3	3	3	3	3	3	2	3	3	1/2
Bromochloromethane	3	3	3	2	-	3	3	-	-	2	2	1
Bromoethane	3	3	3	3	-	-	3	-	-	-	-	1
Bromotoluene	3	3	3	3	3	3	3	3	2	-	-	1
Bunker oil	3	3	3	3	3	2	1	-	1	1	1	1
Butadiene	3	3	3	3	3	3	3	3	2	1	1	1
Butane	3	3	3	2	2	2	1	2	1	1	1	1
Butanoic acid	-	-	-	2	-	-	-	-	1	1	-	1
Butanol	1	1	1	1	1	1	1	1	1	1	1	1
Butanone	-	-	-	-	-	-	-	-	-	1	1	1
Butoxiethanol	-	-	-	1	-	-	-	-	-	1	-	1
Butyl acetate	3	3	-	2	2	-	-	-	3	1	1	1
Butyl acrylate	3	3	3	3	3	3	-	3	3	1	2	1
Butyl alcohol	1	1	1	1	1	1	1	1	1	1	1	1
Butyl aldehyde	-	-	2	1	2	-	-	-	-	1	1	1
Butyl amine	-	-	2	1	2	-	2	-	-	1	1	1
Butyl benzene	-	-	-	-	-	-	-	-	1	1	1	1
Butyl benzoate	-	-	-	2	-	-	-	-	1	1	-	1
Butyl bromide	3	3	3	3	3	3	3	3	2	2	-	1
Butyl butyrate	-	-	-	-	-	-	-	-	-	2	-	1
Butyl carbitol	3	3	2	1	-	-	-	3	1	1	1	1
Butyl cellosolve	3	3	2	1	2	2	3	2	3	1	1	1
Butyl chloride	3	3	3	-	-	3	3	-	2	2	-	1
Butyl ether	3	3	-	-	-	2	3	-	-	1	1	1
Butyl ether acetaldehy	-	-	-	1	2	-	-	-	-	1	-	1
Butyl ethil ether	3	3	-	2	-	-	3	3	-	1	-	1
Butyl glicol	-	-	2	1	-	-	-	-	-	1	1	1
Butyl oleate	3	3	-	2	2	-	3	-	1	1	-	1
Butyl Phenol	-	-	-	-	-	-	-	-	1	1	1	1
Butyl phthalate	3	3	-	2	2	-	-	-	2	1	1	1
Butyl stearate	3	3	3	3	3	3	2	3	3	1	1	1
Butylene	-	-	3	3	-	3	2	-	1	-	-	1
Butyraldehyde	3	3	2	1	2	-	3	-	3	1	1	1
Butyric acid	3	3	-	2	-	-	3	-	2	1	1	1
Butyric anhydride	-	-	-	-	-	-	-	2	-	1	-	1
Cadmium acetate	3	3	2	2	-	-	-	-	-	1	1	1
Calcium acetate	3	3	2	1	2	2	-	3	3	1	1	1
Calcium aluminate	1	1	1	1	-	1	-	1	1	1	1	1
Calcium Bichromate	-	-	2	1	2	-	-	1	-	1	-	1
Calcium bisulphite	1	1	1	1	1	1	1	1	1	1	1	1
Calcium carbonate	1	1	1	1	1	1	1	1	1	1	1	1
Calcium chloride	1	1	1	1	1	1	1	1	1	1	1	1
Calcium hydroxide	2	1	1	1	1	-	-	2	1	1	1	1
Calcium hypochlorite	3	3	2	1	2	-	3	-	-	1	1	1
Calcium nitrate	1	1	1	1	1	1	1	1	1	1	1	1

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MEDIUM	SBR	NR	EPDM	EPR	IIR	CR	NBR	CSM	FKM	PE-X	UHMWPE	PFA-FEP
Calcium sulfide	1	1	1	1	1	1	-	1	1	1	1	1
Calcium sulphate	1	1	1	1	1	1	1	1	1	1	1	1
Caprylic acid	3	3	-	2	-	-	-	-	-	1	1	1
Carbamide	-	-	-	1	-	-	-	-	-	1	1	1
Carbitol	-	-	2	1	2	2	-	-	-	1	1	1
Carbolic acid phenol	-	-	-	2	2	-	-	-	1	1	1	1
Carbon dioxide	1	1	1	1	1	1	1	1	1	1	1	1
Carbon disulfide	3	3	3	3	-	-	-	-	1	2	2	2
Carbon tetrachloride	3	3	3	3	3	3	-	-	1	1	2	1
Carbon tetrafluoride	-	-	-	-	2	-	-	-	-	1	1	1
Carbonic acid	1	1	1	1	1	-	-	1	-	1	1	1
Castor oil	2	-	-	-	2	1	1	1	1	1	1	1
Caustic potash	2	1	1	1	1	2	2	-	-	1	1	1
Caustic soda	2	1	1	1	1	2	2	-	-	1	1	1
Cellosolve	-	-	2	1	1	-	2	-	-	1	1	1
Cellosolve acetate	3	3	-	2	2	-	-	-	-	1	1	1
Chlorinated solvents	3	3	3	3	-	3	3	-	1	1	1	1
Chlorine (dry)	3	3	3	3	3	3	3	3	1	2	2	1/2
Chlorine (wet)	3	3	3	3	3	3	3	3	1	2	2	1
Chlorine trifluoride	3	3	3	3	3	3	3	3	1	2	2	1
Chloroacetic acid	3	3	2	1	2	-	-	-	3	1	1	1
Chloroacetone	3	3	2	1	2	-	-	-	3	1	1	1
Chlorobenzene	3	3	3	3	3	3	3	-	1	1	1	1
Chlorobenzol	3	3	3	-	-	-	-	-	1	1	1	1
Chlorobromomethane	-	-	-	-	-	-	-	-	-	1	1	1
Chlorobutane	3	3	3	-	2	-	-	-	1	2	2	1
Chloroform	3	3	-	-	-	-	-	-	1	2	2	1
Chloropentane	3	3	3	3	3	3	-	-	1	1	1	1
Chlorosulfonic acid	3	3	3	3	3	3	3	3	3	2	3	1/2
Chlorotoluene	3	3	3	3	3	3	3	3	2	2	3	1/2
Chrome plating solutio	3	3	-	2	-	-	-	-	1	1	2	1
Chromic acid	3	3	-	2	-	3	3	-	1	1	1	1
Chromosulfuric acid	3	3	3	3	3	3	3	3	-	2	3	1
Citric acid	1	1	1	1	1	1	1	1	-	1	1	1
Coal oil	3	3	3	3	3	3	1	3	1	1	1	1
Coal tar	3	3	3	3	3	3	1	3	1	1	1	1
Coconut oil	3	3	3	3	2	3	1	-	-	1	1	1
Coke oven gas	3	3	3	3	3	3	2	-	1	1	1	1
Copper chloride	2	2	1	1	1	1	2	1	1	1	1	1
Copper cyanide	2	2	1	1	1	1	-	1	1	1	1	1
Copper hydrate	-	-	-	1	1	-	-	2	-	1	1	1
Copper hydroxide	-	-	2	1	1	-	-	2	-	1	1	1
Copper nitrate	1	2	1	1	1	1	-	1	1	1	1	1
Copper sulphate	1	2	1	1	1	1	-	1	1	1	1	1
Corn oil	3	3	3	3	1	2	1	-	1	1	1	1
Cottonseed oil	3	3	3	3	3	-	-	-	1	1	1	1
Creosote	3	3	3	3	3	-	2	-	1	1	1	1
Cresols	3	3	3	3	3	3	-	-	1	1	1	1
Cresylic acid	3	3	3	3	3	3	-	-	1	1	1	1
Crotonaldehyde	3	3	2	1	2	3	-	-	3	1	1	1
Crude oil	3	3	3	3	3	3	1	-	1	1	1	1
Cumene	3	3	3	3	3	3	2	3	1	1	1	1
Cupric carbonate	2	2	1	1	1	1	1	1	1	1	1	1
Cupric nitrate	1	2	1	1	1	1	1	1	1	1	1	1
Cupric sulphate	1	2	1	1	1	1	1	1	1	1	1	1
Cutting oil	3	3	3	3	-	2	1	-	1	1	1	1
Cycloexane	3	3	3	3	-	-	1	-	-	1	1	1
Cycloexanol	3	3	-	2	-	-	-	-	1	1	1	1
Cycloexanone	3	3	3	2	3	3	3	3	3	1	1	1
Cyclopentane	3	3	3	3	3	3	-	3	1	1	1	1
Cyclopentanol	3	3	2	1	-	-	-	-	2	1	1	1
Cyclopentanone	3	3	-	2	-	-	-	-	3	1	1	1
Decahydronaphtalene	-	-	-	-	-	-	-	-	-	1	1	1
Decalin	3	3	3	3	3	3	3	3	1	1	1	1
Decanol	-	-	2	1	2	-	1	-	2	1	1	1
Decyl alcohol	1	1	1	1	1	-	-	-	-	1	1	1
Decyl aldehyde	-	-	2	1	1	-	-	-	2	1	1	1
Decyl butyl phthalate	3	3	-	1	1	-	2	-	2	1	1	1
Decyl carbinol	-	-	-	2	-	-	-	-	-	1	-	1

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Resistance Chart

"1" = GOOD, "2" =SHORT SERVICE LIFE, "3" = NOT GOOD, "-" = NO INFORMATION

MEDIUM	SBR	NR	EPDM	EPR	IIR	CR	NBR	CSM	FKM	PE-X	UHMWPE	PFA-FEP
Denatured alcohol	1	1	1	1	1	1	-	1	2	1	1	1
Detergents (water)	2	2	1	1	1	2	1	-	1	1	1	1
Developer sol. (photo)	2	2	-	-	2	1	1	1	-	1	1	1
Diacetone alcohol	2	2	-	1	1	-	-	2	2	1	1	1
Diamyl naphtalene	3	3	-	-	2	-	-	-	2	1	1	1
Diamyl Phenol	3	3	3	3	3	3	-	-	1	1	1	1
Diamylamine	2	3	2	1	2	-	-	-	-	1	1	1
Diamylene	3	3	3	-	3	3	-	-	1	1	1	1
Dibenzyl ether	3	3	3	2	2	-	-	-	-	1	-	1
Dibromobenzene	3	3	3	3	3	3	3	-	1	1	1	1
Dibromoethane	3	3	3	3	3	3	3	3	-	1	1	1
Dibutyl amine	3	3	-	2	3	3	-	3	-	-	-	1
Dibutyl ether	3	3	-	2	2	-	-	-	1	1	1	1
Dibutyl Phthalate	3	3	-	2	2	-	3	3	-	1	1	1
Dibutyl sebacate	3	3	-	1	2	-	-	3	-	1	1	1
Dicalcium phosphate	1	1	1	1	1	1	1	1	1	1	1	1
Dichloroacetic acid	3	3	-	2	-	3	3	3	3	1	1	1
Dichlorobenzene	3	3	3	3	3	3	3	3	1	1	1	1
Dichlorobutane	3	3	3	3	3	3	-	3	1	1	-	1
Dichlorodifluorometh.	3	3	3	3	3	3	3	3	2	-	-	1
Dichloroethane	3	3	3	3	3	3	-	-	1	1	1	1
Dichloroethyl ether	3	3	3	-	3	3	3	3	-	1	1	1
Dichloroethylene	3	3	3	3	3	3	3	3	1	2	2	1
Dichlorohexane	3	3	3	3	3	3	3	-	1	1	1	1
Dichloromethane	3	3	3	3	3	3	3	-	1	1	1	1
Dichloropropane	3	3	3	3	3	3	3	-	1	1	-	1
Dichloropropene	3	3	3	3	3	3	3	-	1	2	2	1
Dichloropentane	3	3	3	3	3	3	3	-	1	1	-	1
Diesel oil	3	3	3	3	3	3	1	-	1	1	1	1
Diethanolamine	2	2	1	1	1	2	2	2	-	1	1	1
Diethyl carbinol	-	-	1	1	1	-	-	-	-	1	1	1
Diethyl ether	3	3	-	2	-	-	-	-	3	1	1	1
Diethyl ketone	3	3	2	1	2	3	-	-	3	1	1	1
Diethyl oxalate	1	1	1	1	1	-	-	-	-	1	1	1
Diethyl phthalate	3	3	-	1	2	3	2	-	-	1	1	1
Diethyl sebacate	3	3	-	1	2	3	-	-	-	1	1	1
Diethyl sul fate	-	-	-	2	-	-	-	-	-	1	-	1
Diethylamine	2	2	2	1	2	-	-	-	-	1	1	1
Diethylamine	2	2	1	1	1	2	2	2	-	1	1	1
Diethylbenzene	3	3	3	3	3	3	-	-	1	1	1	1
Diethylene glicol	1	1	1	1	1	1	1	1	1	1	1	1
Dihydroxidietylether	-	-	1	1	1	-	-	1	-	1	1	1
Diisobutyl ketone	-	-	2	1	-	-	-	-	-	1	1	1
Diisodecyl phthalate	3	3	2	1	1	-	3	-	3	1	1	1
Diisooctyl adipate	3	3	2	1	1	-	3	-	3	1	1	1
Diisooctyl phthalate	3	3	2	1	1	-	3	-	3	1	1	1
Diisopropyl amine	2	2	-	1	1	-	-	2	-	1	1	1
Dimethyl amine	2	2	2	1	1	-	2	-	-	1	1	1
Dimethyl benzene	3	3	3	3	3	3	3	3	1	1	1	1
Dimethyl carbinol	2	2	1	1	1	-	2	1	3	1	1	1
Dimethyl ether	3	3	-	2	-	-	-	-	3	1	1	1
Dimethyl formamide	-	-	-	2	2	-	-	-	-	1	1	1
Dimethyl ketone	3	3	-	1	-	-	-	-	3	1	1	1
Dimethyl phenol	3	3	3	3	3	3	3	3	1	-	-	1
Dimethyl phthalate	3	3	-	2	2	-	-	-	2	1	1	1
Dimethyl sul fate	3	3	-	3	3	-	-	-	-	1	1	1
Dimethyl sulfoxyde	3	3	-	-	-	-	-	-	-	1	1	1
Dinitrobenzene	3	3	-	2	2	-	-	-	1	1	1	1
Dioctyl adipate	3	3	-	1	1	-	2	-	2	1	1	1
Dioctyl phthalate	3	3	-	1	1	-	-	-	2	1	1	1
Dioxane	3	3	2	2	2	-	3	-	3	1	1	1
Dioxolane	3	3	3	2	3	-	-	-	3	1	1	1
Dipentene	3	3	-	-	-	-	-	-	1	-	-	1
Diphenyl phthalate	3	3	-	1	-	-	-	-	-	1	1	1
Dipropylamine	2	2	2	1	1	-	2	2	-	1	1	1
Dipropylene glicol	1	1	1	1	1	-	1	1	1	1	1	1
Disodium phosphate	1	1	1	1	1	-	1	1	-	1	1	1
Divinyl benzene	3	3	3	3	3	3	3	3	1	1	1	1
Dodecyl benzene	3	3	3	3	3	3	3	3	1	1	1	1

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Resistance Chart

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MEDIUM	SBR	NR	EPDM	EPR	IIR	CR	NBR	CSM	FKM	PE-X	UHMWPE	PFA-FEP
Dowper	3	3	3	3	3	-	2	2	1	1	1	1
Dowtherm A and E	3	3	3	3	3	3	3	-	1	1	1	1
Dry cleaning fluids	-	-	-	-	-	-	2	-	1	-	-	1
Ethanol	1	1	1	1	1	1	1	1	2	1	1	1
Ethanol amine	2	2	1	1	1	2	2	3	3	1	1	1
Ethyl acetate	3	3	-	2	2	3	3	3	3	1	1	1
Ethyl acetoacetate	3	3	-	2	2	3	3	3	3	1	1	1
Ethyl acetone	3	3	-	1	2	3	3	3	3	1	1	1
Ethyl acrylate	3	3	-	2	2	3	3	3	3	2	1	1
Ethyl Al dichloride	3	3	-	-	-	-	-	-	2	1	1	1
Ethyl aldehyde	-	-	2	1	1	-	-	-	3	1	1	1
Ethyl amine	-	-	2	1	1	2	-	-	-	1	1	1
Ethyl benzene	3	3	3	3	3	3	2/3	3	1	1	1	1
Ethyl bromide	3	3	3	3	3	3	2/3	-	1	1	1	1
Ethyl butyl acetate	3	3	2	1/2	1/2	-	-	-	3	1	1	1
Ethyl butyl alcohol	1/2	1/2	1	1	1	-	1/2	1	2	1	1	1
Ethyl butyl amine	2	2	01-feb	1	1	-	2	2	2	1	1	1
Ethyl butyl ketone	3	3	2	1/2	1/2	-	-	2	3	1	1	1
Ethyl butyrate	3	3	-	1/2	-	-	-	-	3	1	1	1
Ethyl cellulose	2	2	2	1/2	2	2	-	2	3	1	1	1
Ethyl chloride	3	3	2/3	2/3	2/3	-	-	-	1/2	1	1	1
Ethyl dichloride	3	3	3	3	3	-	-	-	2	1	1	1
Ethyl ether	3	3	-	2	-	-	-	-	3	1	1	1
Ethyl formate	3	3	-	2	2	2	-	3	3	1	1	1
Ethyl iodide	3	3	-	-	-	-	-	-	2	2	2	1
Ethyl phthalate	-	-	-	2/3	-	-	-	-	-	1	1	1
Ethylbutyraldehyde	3	3	-	1	1	-	-	3	3	1	1	1
Ethylene chlorohydrine	2/3	2/3	-	2	2	3	3	2	1	1	1	1
Ethylene diamine	2	2	1/2	1	1	1	-	2	3	1	1	1
Ethylene dibromide	3	3	3	2/3	3	3	-	3	1/2	2	2	1
Ethylene dichloride	3	3	3	3	3	3	-	3	1/2	2	2	1
Ethylene glycol	1	1	1	1	1	1	1	1	1	1	1	1
Ethylene oxide gas	-	-	3	3	3	-	-	-	3	1	1	1
Fatty acids	3	3	3	3	3	2/3	2/3	3	1	1	1	1
Ferric bromide	1	1	1	1	1	-	-	1	1	1	1	1
Ferric chloride	1	1	1	1	1	-	1	1	1	1	1	1
Ferric nitrate	1	1	1	1	1	1	1	1	1	1	1	1
Ferric sulfate	1	1	1	1	1	1	1	1	1	1	1	1
Ferrous acetate	3	3	2	1/2	1/2	-	-	3	3	1	1	1
Ferrous chloride	1	1	1	1	1	1	1	1	1	1	1	1
Ferrous hydroxide	2/3	2/3	1/2	1	1	-	-	2	2	1	1	1
Ferrous sulfate	1	1	1	1	1	1	1/2	1	1	1	1	1
Fluoboric acid	2	2	1	1	1	2	-	1	2	1	1	1
Fluorine gas	3	3	3	3	3	3	3	3	1/2	1	1	1/2
Fluorobenzene	-	-	-	-	-	-	-	-	-	1	1	1
Fluosilicic acid	2	2	1	1	1	-	-	1	-	1	1	1
Formaldehyde	2	2	-	1	1	3	3	1	2	1	1	1
Formalin	2	2	1	1	1	-	-	1	1	1	1	1
Formic acid	2	2	1	1	1	-	-	2	3	1	1	1
Freon 12	3	3	3	3	3	2	-	3	2	1	2	1
Freon 22	3	3	3	3	3	3	3	3	3	1	2	1
Freon SO2	-	-	-	1	-	2	-	-	-	1	1	1
Fuel B (ASTM)	3	3	3	3	3	2	1	3	1	1	1	1
Fuel C (ASTM)	3	3	3	3	3	3	1	3	1	1	1	1
Fuel oil	3	3	3	3	3	2	1	3	1	1	1	1
Furan	3	3	3	3	3	3	3	3	-	1	1	1
Furfural	3	3	3	-	2	3	3	-	3	1	1	1
Furfuryl alcohol	3	3	3	2	2	3	3	-	2	1	1	1
Gallic acid	-	-	2	2	2	3	3	3	3	1	1	1
Gas, coke	3	3	-	-	-	-	2	1	-	-	-	1
Gas, liquified petrol	3	3	3	3	3	3	2	-	-	1	1	1
Gasoline	3	3	3	3	3	-	1	3	1	1	1	1
Gluconic acid	3	3	-	2	-	-	3	2	-	1	1	1
Glucose	1	1	2	1	1	2	2	1	-	1	1	1
Glycerine	1	1	1	1	1	1	1	1	1	1	1	1
Glycil alcohol	-	-	-	1	-	-	-	-	-	1	1	1
Glycolic acid	-	-	-	2	-	-	-	-	-	1	1	1
Glycols	1	1	1	1	1	1	1	1	1	1	1	1
Grease	3	3	3	3	3	2	1	-	1	1	1	1

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MEDIUM	SBR	NR	EPDM	EPR	IIR	CR	NBR	CSM	FKM	PE-X	UHMWPE	PFA-FEP
Green sulphate liquor	1	1	1	1	1	2	2	1	1	1	1	1
Halon 1211	-	-	-	-	-	1	1	-	-	-	1	1
Helium	1	1	1	1	1	1	1	1	1	1	1	1
Heptanal	3	3	-	1	1	-	-	3	-	1	1	1
Heptane	3	3	3	3	3	2	1	-	1	1	1	1
Heptane carboxyl acid	3	3	-	2	-	-	-	2	-	1	1	1
Hexaldehyde	3	3	1	1	2	2	-	3	3	1	1	1
Hexane	3	3	3	3	3	-	1	3	1	1	1	1
Hexanol	1	1	1	1	1	-	1	1	2	1	1	1
Hexene	3	3	3	3	3	2	2	2	1	1	1	1
Hexyl alcohol	1	1	1	1	1	2	1	1	2	1	1	1
Hexyl methyl ketone	3	3	-	2	2	-	3	3	3	1	1	1
Hexylamine	2	2	-	-	1	-	2	3	-	1	1	1
Hexylene glycol	1	1	1	1	1	-	1	1	1	1	1	1
Hydraulic oil	3	3	3	3	3	-	1	2	1	1	1	1
Hydrazine	3	3	3	3	2	2	3	1	-	1	1	1
Hydrobromic acid	3	1	1	1	1	3	3	1	3	1	1	1
Hydrocl. ac.37%(cold)	3	2	1	1	2	-	-	2	1	1	1	1
Hydrocl. ac.37%(hot)	3	3	3	2	3	-	-	3	2	1	1	1
Hydrocloric acid 15%	3	1	1	1	1	-	-	1	1	1	1	1
Hydrocyanic acid	3	3	-	-	2	2	-	3	-	1	1	1
Hydrofluoric acid cold	3	3	3	2	1/2	-	-	1	-	1	1	1
Hydrofluoric acid hot	3	3	3	3	3	-	-	3	-	1	1	1
Hydrofluosilicic acid	3	3	2	1	1/2	3	-	1	-	1	1	1
Hydrogen dioxide 10%	3	3	-	2	2	-	-	2	1	1	1	1
Hydrogen gas	2	2	-	1	1	1	1	2	2	1	1	1
Hydrogen perox. >10%	3	3	-	3	3	-	-	3	1	1	1	1
Hydrogen perox. 10%	3	3	-	2	2	-	-	2	1	1	1	1
Hydrogen sulfide	3	3	2	1	2	-	3	3	3	1	1	1
Iodine	3	3	3	3	3	-	-	1	3	1	1	1
Iron acetate	3	3	2	1	2	-	-	-	3	1	1	1
Iron salts	1	1	1	1	1	1	1	1	1	1	1	1
Isoamyl acetate	3	3	2	1	2	-	-	-	3	1	1	1
Isoamyl alcohol	1	1	1	1	1	-	1	1	2	1	1	1
Isoamyl bromide	3	3	3	2	-	-	-	-	1	1	1	1
Isobutane	3	3	3	3	3	-	1	-	1	1	1	1
Isobutyl acetate	3	3	-	2	-	3	-	3	3	1	1	1
Isobutyl aldehyde	3	3	2	1	1	-	3	2	3	1	1	1
Isobutyl amine	2	2	1	1	1	-	2	2	-	1	1	1
Isobutyl bromide	3	3	3	3	3	3	3	3	2	1	-	1
Isobutyl carbinol	1	1	1	1	1	-	1	1	1	1	1	1
Isobutyl cloride	3	3	3	3	3	3	3	3	2	1	-	1
Isobutyl ether	3	3	-	2	2	3	3	3	-	1	1	1
Isobutylene	3	3	3	-	3	3	2	3	1	1	1	1
Isooctane	3	3	3	3	3	3	1	3	1	1	1	1
Isopentane	3	3	3	3	3	3	1	3	1	1	1	1
Isopropanol amine	2	2	-	1	1	-	2	3	-	1	1	1
Isopropyl acetate	3	3	-	2	2	3	3	3	3	1	1	1
Isopropyl alcohol	1	1	1	1	1	1	1	1	2	1	1	1
Isopropyl amine	2	2	1	1	1	-	2	3	-	1	1	1
Isopropyl benzene	3	3	3	3	3	3	-	3	1	1	1	1
Isopropyl ether	3	3	3	3	3	3	3	3	3	1	1	1
Isopropyl toluene	3	3	3	3	3	3	3	3	1	1	1	1
Jet fuels	3	3	3	3	3	3	1	3	1	1	1	1
Kerosene	3	3	3	3	3	2	1	3	1	1	1	1
Ketones	3	3	1	1	1	3	3	3	3	1	1	1
Lactic acid (cold)	2	2	-	1	1	1	3	2	1	1	1	1
Lactic acid (hot)	3	3	-	-	-	-	-	-	3	2	2	1/2
Laquers solvents	3	3	3	3	3	3	3	3	3	1	1	1
Lard	3	3	-	2	1/2	1	1	3	3	1	1	1
Lauryl alcohol	1	1	1	1	1	-	1	1	2	1	1	1
Lauryl alcohol	1	1	1	1	1	-	1	1	2	1	1	1
Lavender oil	3	3	3	3	3	3	2	3	1	1	1	1
Lead acetate	3	2	2	1	2	1	2	3	3	1	1	1
Lead sulfate	1	1	1	1	1	1	1	1	1	1	1	1
Lime bleach	2	2	1	1	1	2	1	2	1	1	1	1
Lime sulfur	3	3	1	1	1	1	3	1	1	1	1	1
Linoleic acid	3	3	3	-	-	-	2	-	2	1	1	1
Linseed oil	3	3	-	2	2	-	1	-	1	1	1	1

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Resistance Chart

"1" = GOOD, "2" =SHORT SERVICE LIFE, "3" = NOT GOOD, "-" = NO INFORMATION

MEDIUM	SBR	NR	EPDM	EPR	IIR	CR	NBR	CSM	FKM	PE-X	UHMWPE	PFA-FEP
Liquid Petroleum Gas	3	3	3	3	3	-	1	-	1	1	1	1
Lubricating oils	3	3	3	3	3	2	1	-	1	1	1	1
Lye solutions	2	2	1	1	1	-	-	1	2	1	1	1
Meg	3	3	2	1	2	-	-	3	3	1	1	1
Magnesium acetate	3	3	-	2	2	-	-	-	-	1	1	1
Magnesium chloride	1	1	1	1	1	1	1	1	1	1	1	1
Magnesium hydrate	2	2	-	1	1	-	2	2	-	1	1	1
Magnesium hydroxide	2	2	1	1	1	2	2	2	2	1	1	1
Magnesium sulfate	1	1	1	1	1	1	1	1	-	1	1	1
Maleic acid	3	3	3	2	-	3	3	3	-	1	1	1
Maleic anhydride	3	3	3	2	3	3	3	3	3	1	1	1
Malic acid	3	2	-	2	-	-	-	2	1	1	1	1
Manganese sulphate	2	2	1	1	1	-	-	1	1	1	1	1
Manganese sulphite	2	2	1	1	1	-	-	1	1	1	1	1
Mercury	1	1	1	1	1	1	-	1	1	1	1	1
Mesityl oxide	3	3	2	2	-	-	-	-	-	1	1	1
Methallyl alcohol	1	1	1	1	1	-	1	1	3	1	1	1
Methanecarboxylic acd	3	3	3	-	-	2	-	-	-	1	1	1
Methanoic acid	3	3	-	2	-	-	-	-	-	1	1	1
Methanol	1	1	1	1	1	1	1	1	2	1	1	1
Methoxy ethanol	3	3	-	2	-	-	-	-	-	1	1	1
Methyl 1,2-pentanediol	3	3	-	-	-	-	-	-	-	1	1	1
Methyl acetate	3	3	2	1	2	-	-	3	3	1	1	1
Methyl acetone	3	3	2	1	2	-	-	3	3	1	1	1
Methyl alcohol	1	1	1	1	1	1	1	1	2	1	1	1
Methyl allyl acetate	3	3	-	2	-	-	-	-	3	1	1	1
Methyl allyl alcohol	-	-	-	2	-	-	-	-	-	1	1	1
Methyl allyl chloride	3	3	-	2	-	-	-	-	3	1	2	1
Methyl amyl acetate	3	3	-	2	-	-	-	-	3	1	2	1
Methyl amyl carbinol	1	1	1	1	1	-	-	1	3	1	1	1
Methyl benzene	3	3	3	3	3	3	3	3	1	2	2	1
Methyl bromide	3	3	3	3	3	3	3	3	1	2	2	1
Methyl butane	3	3	3	3	3	-	2	-	-	1	-	1
Methyl butanol	1	1	1	1	1	-	1	1	-	1	1	1
Methyl butyl ketone	3	3	2	1	2	-	-	-	3	1	1	1
Methyl carbitol	3	3	-	2	-	-	-	-	3	1	1	1
Methyl cellosolve	3	3	2	1	2	-	3	3	3	1	1	1
Methyl chloride	3	3	3	3	3	3	2/3	3	1/2	1/2	1/2	1/2
Methyl cyclohexane	3	3	3	3	3	3	2/3	3	1/2	1/2	1/2	1
Methyl ethyl ketone	3	3	2	1	2	-	-	3	3	1	1	1
Methyl hexanol	1	1	1	1	1	1	1	1	2	1	1	1
Methyl hexanone	3	3	2	1	1/2	3	3	3	3	1	1	1
Methyl isobut carbinol	2	2	1	1	1	-	-	3	3	1	1	1
Methyl isobutyl cheton	3	3	3	2	2	3	3	-	3	1	1	1
Methyl methacrylate	3	3	3	3	3	-	-	3	3	1	1	1
Methyl n amyl chetone	3	3	-	1/2	1/2	-	-	-	3	1	1	1
Methyl propyl ether	3	3	-	2	2	-	-	-	3	1	1	1
Methyl salicylate	3	3	-	1/2	1/2	-	-	-	3	1	1	1
Methyl ter butyl ether	3	3	-	2	2	-	-	-	3	1	1	1
Methylene bromide	3	3	3	3	3	3	3	3	-	2	2	1/2
Methylene bromide	3	3	3	3	3	3	3	3	1/2	1/2	1/2	1
Methylene chloride	3	3	3	3	3	3	3	3	1/2	1/2	1/2	1/2
Methylene chloride	3	3	3	3	3	3	3	3	-	2	2	1/2
Mineral spirits	3	3	3	-	-	2	1	-	-	1	1	1
Molten sulphur	2	2	2	1/2	2	-	3	2	-	-	-	1
Monobutyl ether	3	3	3	2	2	-	-	-	3	1	1	1
Monochloroacetic acid	3	2	-	2	-	-	3	3	3	1	1	1
Monochlorobenzene	3	3	3	3	3	3	3	3	1	1/2	1/2	1
Monochlorodifluormet	3	3	3	-	2	3	-	-	-	1/2	1/2	1
Monoethanol amine	2	1	1	1	1	-	2	2	3	1	1	1
Monoethyl amine	-	-	2	1/2	2	-	-	2	-	1	1	1
MTBE (ter butyl metil Ether)	3	3	-	2	-	-	-	-	3	1	-	1
Muriatic acid	3	1	2	2	2	-	-	1	1	1	1	1
Naphta	3	3	3	3	3	3	1	1	1	1	1	1
Naphtalene	3	3	3	3	3	3	3	3	2	1	1	1
Naphtenic acid	3	3	3	3	3	3	2	3	1	1	1	1
Natural gas	3	3	3	3	3	3	1/2	2	1	1	1	1
Neohexane	3	3	3	3	3	3	1/2	-	1	1	1	1
Nickel acetate	2	2	-	1	2	-	2	-	3	1	1	1

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Resistance Chart

"1" = GOOD, "2" =SHORT SERVICE LIFE, "3" = NOT GOOD, "-" = NO INFORMATION

MEDIUM	SBR	NR	EPDM	EPR	IIR	CR	NBR	CSM	FKM	PE-X	UHMWPE	PFA-FEP
Nickel chloride	1	1	1	1	1	2	1	1	1	1	1	1
Nickel nitrate	1	1	1	1	1	2	1	1	1	1	1	1
Nickel sulphate	1	1	1	1	1	1	1	1	1	1	1	1
Nitric acid ? fuming	3	3	3	3	3	3	-	3	2/3	3	3	1/2
Nitric acid 10%	3	3	2	1	1	-	-	1	1	1	1	1
Nitric acid 20%	3	3	3	1	2	-	-	2	1	1	1	1
Nitric acid 30%	3	3	3	2	2	-	-	3	1	1	1	1
Nitric acid 40%	3	3	3	2	3	3	-	3	1	1	1	1
Nitric acid 40-60%	3	3	3	3	3	3	-	3	2	2	2	1
Nitrobenzene	3	3	3	3	3	3	-	3	2	1	1	1
Nitrocellulose	-	-	-	-	-	-	-	-	-	1	1	1
Nitrogen gas	1	1	1	1	1	1	1	1	1	1	1	1
Nitromethane	3	2	2	1	1	-	-	3	-	1	1	1
Nitropropane	-	-	-	-	-	-	-	-	-	1	1	1
Nitrous oxide gas	1	1	1	1	1	-	-	1	-	1	1	1
Nonenes	3	3	3	3	3	-	1/2	-	1	1	1	1
Octadecanoic acid	3	3	3	3	3	-	1/2	-	-	1	1	1
Octane	3	3	3	3	3	-	1	-	1	1	1	1
Octanol	2	2	2	1	2	-	2	2	2	1	1	1
Octyl acetate	3	3	2	2	2	-	-	3	3	1	1	1
Octyl alcohol	2	2	2	1	2	-	-	-	2	1	1	1
Octyl aldehyde	3	3	-	1	2	-	-	3	3	1	1	1
Octyl amine	2	2	2	1	2	-	-	3	3	1	1	1
Octyl carbinol	1	1	1	1	1	-	1	1	2	1	1	1
Octylene glycol	1	1	1	1	1	-	1	1	-	1	1	1
Oil ? petroleum	3	3	3	3	3	2/3	1	2/3	1	1	1	1
Oleic acid	3	3	-	2	-	-	2	3	2	1	1	1
Oleum	3	3	3	3	3	3	3	3	2	3	3	1/2
Olive oil	3	3	2	2	1	1	1	3	1	1	1	1
Orthodiclorobenzene	3	3	3	3	3	3	3	3	1	1/2	1/2	1
Orthodiclorobenzol	3	3	3	3	3	3	3	3	1/2	1/2	1/2	1
Orthoxylene	3	3	3	3	3	3	3	3	1	1	1	1
Oxalic acid	3	3	1	1	1	3	3	3	3	1	1	1
Oxygen	2	2	1	1	1	-	2	1	1	1	1	1
Ozone	3	3	1	1	1/2	2	3	2	3	1	1	1
Paint	3	3	2	2	-	-	2	-	2	1	1	1
Palmitic acid	3	3	-	2	2	-	1	3	3	1	1	1
Papermakers alum	1	1	1	1	1	1	1	1	1	1	1	1
Paraffin	3	3	3	3	3	2	1	3	1	1	1	1
Paraldehyde	3	3	-	1/2	1/2	3	3	-	3	1	1	1
Paraxylene	3	3	3	3	3	3	3	3	1	1/2	1/2	1
Pelargonic acid	3	3	-	1	1	-	2	3	-	1	1	1
Pentachloroethene	3	3	3	3	3	3	3	3	1	1	1	1
Pentadione	3	3	-	2	-	-	-	3	3	1	1	1
Pentane	3	3	3	3	3	2	1	3	1	1	1	1
Pentanone	3	3	-	2	-	-	-	3	3	1	1	1
Pentasol	1	1	-	1	1	-	-	1	1	1	1	1
Perchloric acid	3	3	-	2	-	3	3	2	1	1	1	1
Perchloroethylene	3	3	3	3	3	3	3	3	1	1	1	1
Petroleum crude	3	3	3	3	3	3	1	3	1	1	1	1
Petroleum ether	3	3	3	3	3	3	1/2	3	1	1	1	1
Petroleum oils	3	3	3	3	3	-	1	3	1	1	1	1
Phenol	3	3	3	-	2	-	3	-	1	1	1	1
Phenolsulphonic acid	3	3	3	2/3	2/3	-	-	3	3	1	1	1
Phenyl chloride	3	3	3	3	3	3	3	3	1	1	1	1
Phenylamine	-	-	-	2/3	-	-	-	-	-	1/2	1/2	1
Phenylhydrazine	2	1/2	2	2	2	3	3	3	1	1/2	1/2	1
Phosphoric acid 10%	1	1	1	1	1	2	-	1	1	1	1	1
Phosphoric acid 10-85%	3	2	1	1	1	2	3	1	1	1	1	1
Picric acid (alcoholic)	2	2	2	-	1/2	-	-	1	3	1	1	1
Pine oil	3	3	3	3	3	3	3	3	1	1	1	1
Pinene	3	3	3	3	3	3	2	3	1	1	1	1
Polyethylene glycol	1	1	1	1	1	-	1	1	1	1	1	1
Polyol ester	3	3	3	3	-	-	1/2	-	1/2	1	1	1
Polypropylene glycol	1	1	1	1	1	-	1	1	1	1	1	1
Potassium acetate	3	3	1	1	2	2	2	3	3	1	1	1
Potassium bisulfate	1	1	1	1	1	1	-	1	-	1	1	1
Potassium busulfite	1	1	1	1	1	-	-	1	-	1	1	1
Potassium carbonate	1	1	1	1	1	1	1	1	-	1	1	1

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Resistance Chart

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MEDIUM	SBR	NR	EPDM	EPR	IIR	CR	NBR	CSM	FKM	PE-X	UHMWPE	PFA-FEP
Potassium chloride	1	1	1	1	1	1	1	1	-	1	1	1
Potassium chromate	-	-	-	1	1	-	-	2	1	1	1	1
Potassium cyanide	1	1	1	1	1	-	-	1	-	1	1	1
Potassium dichromate	-	-	-	1	1	-	-	2	1	1	1	1
Potassium hydroxide	2	2	1	1	1	3	3	2	3	1	1	1
Potassium nitrate	1	1	1	1	1	1	1	1	1	1	1	1
Potassium pmanganate	-	-	-	-	-	-	-	1	-	1	1	1
Potassium silicate	1	1	1	1	1	-	-	1	1	1	1	1
Propane	3	3	3	3	3	3	1	2	1	1	1	1
Propanediol	1	1	1	1	1	-	-	1	1	1	1	1
Propanol	1	1	1	1	1	-	-	1	2	1	1	1
Propanolamine	-	-	-	-	-	-	-	-	3	1	1	1
Propanone	-	-	-	1	2	-	-	-	3	1	1	1
Propenenitrile	-	-	-	-	-	-	-	-	-	-	-	1
Propionic acid	-	-	2	1	2	-	-	-	-	1	1	1
Propyl acetate	3	3	2	1/2	2	-	-	-	3	1	1	1
Propyl alcohol	1	1	1	1	1	-	2	1	-	1	1	1
Propyl aldehyde	3	3	2	1	2	-	-	-	3	1	1	1
Propyl benzene	3	3	3	3	3	-	2/3	-	1	1	1	1
Propyl chloride	3	3	3	3	3	3	3	-	2	1	1/2	1
Propyl ether	-	-	-	2	-	-	-	-	-	1	1/2	1
Propylene	3	3	3	3	3	3	3	-	1	1	-	1
Propylene dichloride	3	3	3	3	3	3	3	-	2	1	1/2	1
Propylene glycol	1	1	1	1	1	-	-	1	1	1	1	1
Red oil	3	3	3	3	3	2	1	2	1	1	1	1
Resorcinol	-	-	-	-	-	-	-	-	2	1	1/2	1
Richfield A, 100%	-	-	-	-	-	-	-	-	-	1	1	1
Richfield D, 33%	-	-	-	-	-	-	-	-	-	1	1	1
Sea water	1	1	1	1	1	1	1	1	1	1	1	1
Sewage	2	2	3	3	2	1	1	1	-	1	1	1
Silicate esters	-	-	-	-	-	1	2	-	-	1	1	1
Silicate of soda	1	1	1	1	1	-	-	1	-	1	1	1
Silicone grease	1	1	1	1	1	1	1	1	-	1	1	1
Silicone oil	1	1	1	1	1	1	1	1	-	1	1	1
Silver nitrate	1	1	1	1	1	1	2	1	1	1	1	1
Skydrol 500B	-	-	-	1	2	3	-	3	3	1	1	1
Soap solutions	2	2	2	1	1	2	1	1	1	1	1	1
Soda ash	1	1	1	1	1	1	1	1	1	1	1	1
Soda lime	2	2	2	1	1	-	-	2	2	1	1	1
Soda, caustic	2	2	2	1	1	-	-	2	2	1	1	1
Sodium acetate	3	3	3	1	2	-	-	3	3	1	1	1
Sodium aluminate	1	1	1	1	1	1	-	1	-	1	1	1
Sodium bicarbonate	1	1	1	1	1	1	1	1	1	1	1	1
Sodium bisulphate	2	2	2	1	1	-	1	1	-	1	1	1
Sodium bisulphite	2	2	2	1	1	-	1	1	-	1	1	1
Sodium borate	1	1	1	1	1	1	1	1	1	1	1	1
Sodium chloride	1	1	1	1	1	1	1	1	1	1	1	1
Sodium cyanide	3	3	3	1	1	3	3	1	-	1	1	1
Sodium dichromate	3	3	3	1	1	-	-	2	3	1	1	1
Sodium Hypochlorite	3	3	3	2	2	-	-	2	2	1	1	1
Sodium metaphosphate	2	2	2	1	1	2	2	2	-	1	1	1
Sodium nitrate	1	1	1	1	1	-	-	1	1	1	1	1
Sodium perborate	2	2	2	1	1	2	2	1	-	1	1	1
Sodium peroxide	2	2	2	1	1	-	-	2	-	1	1	1
Sodium Silicate	1	1	1	1	1	1	-	1	-	1	1	1
Sodium Thiosulfate	1	1	1	1	1	1	-	1	1	1	1	1
Soybean oil	3	3	3	2	1	2	1	2	1	1	1	1
Stannic chloride	1	1	1	1	1	-	-	1	-	1	1	1
Steam, max 176°C	3	3	1	1	1/2	3	3	-	3	3	3	1
Stearic acid	3	3	2	1	2	2	2	3	3	1	1	1
Stoddarts solvent	3	3	3	3	3	-	1	3	1	1	1	1
Styrene	3	3	3	3	3	3	3	3	2	2	2	1
Sulphamic acid	2	2	1	1	1	2	2	2	3	1	1	1
Sulphonic acid	3	3	3	3	3	3	3	2	-	1	1	1
Sulphur	3	3	3	2/3	2/3	-	-	2/3	2	1	1	1
Sulphur dioxide	3	3	2	2	-	-	-	2	-	1	1	1
Sulphur trioxide	3	3	3	3	-	-	-	-	-	3	3	1
Sulphuric acid 25%	3	2	1	1	1	2	-	1	1	1	1	1
Sulphuric acid 50%	3	3	1	1	1	-	-	1	1	1	1	1

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MEDIUM	SBR	NR	EPDM	EPR	IIR	CR	NBR	CSM	FKM	PE-X	UHMWPE	PFA-FEP
Sulphuric acid 75%	3	3	2	1	2	-	-	1	1	1	1	1
Sulphuric acid 96%	3	3	3	2	3	-	-	2	-	1/2	1	1
Sulphuric acid 98%	3	3	3	3	3	-	-	3	-	2	2	1
Sulphuric acid –fuming	3	3	3	3	3	3	3	3	3	3	3	1
Sulphurous acid 10%	2	2	1	1	1	-	-	1	-	1	1	1
Sulphurous acid 85%	3	3	1	1	1	-	-	1	-	1	1	1
Sulphydric acid (H2S)	3	3	2	1	1	-	3	1	-	1	1	1
Tall oil	3	3	3	3	3	2	1	3	1	1	1	1
Tallow	3	3	3	3	3	-	1	3	-	1	1	1
Tannic acid	2	2	1	1	1	-	-	1	-	1	1	1
Tar	3	3	3	3	3	2/3	2	-	1	3	2	1
Tartaric acid	3	3	2	1	1	2	2	1	-	1	1	1
Tertiary butyl alcohol	2	2	1	1	1	-	1	1	1	1	1	1
Tertiary butyl mercapt	3	3	3	3	3	-	-	-	1	-	-	1
Tetrachlorobenzene	3	3	3	3	3	3	3	3	1/2	2	1/2	1
Tetrachloroetane	3	3	3	3	3	3	3	3	1	2	2	1
Tetrachloroethylene	3	3	3	3	3	3	3	3	1	1/2	1	1
Tetrachloromethane	3	3	3	3	3	3	3	3	1	1	1	1
Tetrachloronaphtalene	3	3	3	3	3	3	3	3	1/2	1	1	1
Tetrahydrofuran	3	3	3	3	3	3	3	3	-	1/2	1	1
Tin chloride	2	2	2	1	1	-	2	1	-	1	1	1
Toluene	3	3	3	3	3	-	3	-	1	1/2	1/2	1
Toluidine	3	3	3	3	3	-	3	-	2	2	1	1
Toluol	3	3	3	3	3	-	3	3	1	1	1	1
Transformer oil	3	3	3	3	3	2	1	-	1	1	1	1
Tributyl amine	2	2	-	2	2	2	2	3	-	1	1	1
Trichloroacetic acid	3	3	2	1	2	-	-	3	3	1	1	1
Trichlorobenzene	3	3	3	3	3	3	3	3	2	2	2	1
Trichloroethane	3	3	3	3	3	3	3	3	1/2	1/2	1/2	1
Trichloroethylene	3	3	3	3	3	3	3	3	1/2	2	2	1
Trichloropropane	3	3	3	3	3	3	3	3	2	1	1	1
Tricresyl phosphate	3	3	-	2	2	-	-	3	3	1	1	1
Triethanolamine	3	2	2	1/2	1/2	2	3	2	3	1	1	1
Triethylamine	3	3	2	2	2	-	-	-	3	1	1	1
Triethylene glycol	1	1	1	1	1	-	-	1	1	1	1	1
Trimethylamine	3	3	-	-	-	-	-	-	3	1	1	1
Trinitrotoluene	3	3	3	3	3	3	3	-	2	2	1/2	1
Trioctyl phosphate	3	3	-	2	2	-	-	-	-	1	1	1
Tung oil	3	3	3	3	3	2	1	2	1	1	1	1
Turpentine	3	3	3	3	3	3	3	-	1	1	1	1
Urea	2	2	2	1	2	2	2	1	-	1	1	1
Vegetable oils	3	3	3	2/3	1	-	1	2	1	1	1	1
Vinegar	2	2	1	1	1	-	3	2	3	1	1	1
Vinyl acetate	3	3	-	2	2	-	-	3	3	1	1	1
Vinyl benzene	3	3	3	3	3	3	3	3	2	1/2	1	1
Vinyl chloride	3	3	3	3	3	3	3	3	1	1	1	1
Vinyl cyanide	3	3	3	3	3	3	3	3	-	1/2	1/2	1
Vinyl ether	3	3	3	-	2	-	-	-	-	1	1	1
Vinyl Trichloride	3	3	3	3	3	-	-	-	-	1/2	1/2	1
Water	1	1	1	1	1	2	1	1	1	1	1	1
White oil	3	3	3	3	3	1/2	1	-	-	1	1	1
Wines	1	1	-	-	1	-	1	-	-	1	1	1
Wood oil	3	3	3	3	3	2	1	-	1	1	1	1
Xylene	3	3	3	3	3	3	3	-	1	2	2	1
Zinc acetate	1	1	1	1	1	1	1	1	-	1	1	1
Zinc chloride	1	1	1	1	1	1	1	1	-	1	1	1
Zinc chromate	-	-	-	1	-	-	-	-	-	1	1	1
Zinc sulphate	1	1	1	1	1	1	1	1	1	1	1	1

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