



Lloyd's
Register

Type Approval Certificate

This is to certify that Certificate No. 13/00002 for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Matec Group Srl														
PLACE OF PRODUCTION	Via 1° Maggio 7 - 20068 Peschiera Borromeo (MI) Italy														
DESCRIPTION	COMPOTEC® Composite Flexible Hoses														
TYPE AND RATINGS	<table><tr><td>Description:</td><td>Compotec® hoses EN 13765:2015 Type 2 (SD) & 3 (HD)</td></tr><tr><td>Type:</td><td>CHEM, OIL, PTFE, FOOD, DRAINTEC, HIGRADE, EXILITE, BIOTEC, BLH HOSE, FRACKHOSE, ABRATEC, CHEMCHLOR, EXTRAFLEX, HITEMP</td></tr><tr><td>Application:</td><td>Oil, Chemical, Hydrocarbons</td></tr><tr><td>Bore Diameter:</td><td>¾" to 12"</td></tr><tr><td>Temperature Range:</td><td>-40 to 80°C -40 to 125°C PTFE Type -40 to 200°C HITEMP Type</td></tr><tr><td>Max Working Pressure:</td><td>Type 2 (SD): 10 bar Type 3 (HD): 15 bar</td></tr><tr><td>Type of wire:</td><td>Galvanized steel (Z), Stainless steel (X), Aluminium (A), Polypropylene (P), PVDF (F)</td></tr></table>	Description:	Compotec® hoses EN 13765:2015 Type 2 (SD) & 3 (HD)	Type:	CHEM, OIL, PTFE, FOOD, DRAINTEC, HIGRADE, EXILITE, BIOTEC, BLH HOSE, FRACKHOSE, ABRATEC, CHEMCHLOR, EXTRAFLEX, HITEMP	Application:	Oil, Chemical, Hydrocarbons	Bore Diameter:	¾" to 12"	Temperature Range:	-40 to 80°C -40 to 125°C PTFE Type -40 to 200°C HITEMP Type	Max Working Pressure:	Type 2 (SD): 10 bar Type 3 (HD): 15 bar	Type of wire:	Galvanized steel (Z), Stainless steel (X), Aluminium (A), Polypropylene (P), PVDF (F)
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Certificate No.	13/00002 (E1)														
Issue Date	23 April 2018														
Expiry Date	14 January 2023														
Sheet	1 of 2														



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	Application:	LPG and LNG system
	Bore Diameter:	3/4" to 12"
	Temperature Range:	-50 to 80°C (Type 1) -175 to 80°C (Type 2)
Max Working Pressure:	Type 1 LPG 25 bar Type 2 LNG 13 bar	
Type of wire	10 bar when used for IBC and IGC cargoes and for diameters 10" to 12" Stainless steel (X), Galvanized steel (Z)	

STANDARDS/CODES LR Rules and Regulations for the Classification of Ships;
LR Rules and Regulations for the Classification of Fixed Offshore Installations;
EN 13765:2015;
EN 13766:2010;
IMO IGC Code;
IMO IBC Code.

APPLICATION Flexible hoses for Oil, chemical and Hydrocarbon Systems in LNG/LPG carriers, marine and offshore applications.

OTHER CONDITIONS The hose types are to be suitable for the service conditions.

The hose assemblies are to be installed and tested to the satisfaction of the attending surveyor.

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."

The Design Appraisal Document No. 13/00002 (E1) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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