Certificate No: LR2308101TA
Issue Date: 15/01/2023
Expiry Date: 14/01/2028

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	**Matec Group srl**
Address	Via I° Maggio 7, Peschiera Borromeo, 20068, Italy
Type	Flexible Hoses
Trade Name	COMPOTEC® Composite Flexible Hoses
Application	Flexible hoses for oil, chemical and hydrocarbon systems in LNG/LPG carriers, marine and offshore applications.
Specified Standard	LR Rules and Regulations for the Classification of Ships; LR Rules and regulations for the Classification of Fixed Offshore Installations; EN 13765:2018, EN 13766:2020; IMO IGC Code, IMO IBC Code.

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Fabrizio Cadenaro

Lead Technical Specialist - Alternative Fuels to Lloyd's Register EMEA
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Ratings

Description: COMPOTEC® hoses EN 13765:2018 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: 3/4" to 12"

Standard	COMPOTEC® hoses	Max Work. pressure	Temperature range
UNI EN 13765:2018	TYPE 3 HD	15 bar	-40 to 80°C -40 to 125°C PTFE NANOTEC -40 to 200°C HITEMP
UNI EN 13765:2018	TYPE 2 SD	10 bar	-40 to 80°C

Type of wire: Galvanized steel (Z), Stainless steel (X), Aluminium (A), Polypropylene (P), PVDF (F)

Description: COMPOTEC® hoses EN 13766:2020 Type 1 and 2
Type: CYROTEC 660 LG, CYROTEC 661 N
Application: LPG and LNG system
Bore diameter: 3/4" to 12"

Standard	COMPOTEC® hoses	Max Work. pressure	Temp. range
UNI EN 13766:2020	TYPE 1 CYROTEC TYPE 660 LG	25 bar	-50 to 80°C
UNI EN 13766:2020	TYPE 2 CYROTEC TYPE N 661	13 bar	-175 to 80°C

Type of wire: Stainless steel (X), Galvanized steel (Z)

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.

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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.

Previous Version: 13/00002 (E2)

The Design Appraisal Document LR2308101DA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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