

Page 1 of 2

Certificate No: LR21359210TA Issue Date: 11/10/2021 Expiry Date: 31/08/2026

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 Tubi Thor SpA

Address Via Caduti per la Patria 83, Lesmo, 20855, Italy

Place of Production Thor Sud S.p.A.

Via M. Bellisario, 54, San Salvo - CH -, 66050, Italy

Place of Production Tubi Thor SpA

Via Caduti per la Patria 83, Lesmo, 20855, Italy

Type Flexible Hoses

Description Fire resistant fuel hoses for small craft. Type 1 with a permeation rate greater

than 15 g/m² per 24 h but less than 100 g/m² per 24 h

Trade Name CARBOPOMP/M I5T, CARBOPOMP/M I5C, CARBOPOMP/M I5N

Application Fuel hose for small crafts of hull length up to 24 m

Specified Standard ISO 7840:2021 (Small craft – Fire-resistant fuel hoses)

SAE J 1527: 2011 (Marine Fuel Hoses)

Dirk Schroeder

Specialist to Lloyd's Register EMEA A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



Page 2 of 2

Certificate No: LR21359210TA Issue Date: 11/10/2021 Expiry Date: 31/08/2026

Type Approval Certificate

Ratings Design pressure (bar): 2,5

Temperature range (°C): -20 to +80 CARBOPOMP M I5T Internal diameter (mm): 6 to 63 CARBOPOMP M I5C Internal diameter (mm): 25 to 60 CARBOPOMP M I5N Internal diameter (mm): 16 to 60

Other Conditions Prototype pressure tests are to be carried out on each new type of hose and

end fitting. The bursting pressure is to be not less than four times the

maximum pressure in service.

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: 17/20103

The Design Appraisal Document HTS/ENS 36815-17, issue 1 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.