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Certificate No: LR22243149TA Issue Date: 26/03/2022 Expiry Date: 25/03/2027

## **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 Gutteling B.V.

**Address** Pelsertstraat 9, Rotterdam, 3044 CH, Netherlands

**Type** Flexible Hoses

**Description** GUTTELING – Chem Red

GUTTELING – Oil Blue GUTTELING – Chem Green GUTTELING – Chem Black GUTTELING – Vapor Yellow GUTTELING – LPG White GUTTELING – LNG White

**Trade Name** Cargo Composite hose assemblies

**Application** Oil, Chemical, LPG and LNG systems

**Specified Standard** Rules and Regulations for the Classification of Ships, July 2021

Rules and Regulations for the Construction and Classification of Ships for the

Carriage of Liquid Chemicals in Bulk, July 2021

Rules and Regulations for the Construction and Classification of Ships for the

Carriage of Liquefied Gases in Bulk, July 2021 IBC Code; IGC Code EN 13765:2018; EN 13766:2019

**Matthijs Breel** 

Lead Specialist Propulsion Systems to Lloyd's Register EMEA

A member of the Lloyd's Register group

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**Ratings** See Appendix

**Other Conditions** Each hose assembly to be hydraulic pressure tested to 1.5 times the working

pressure

The hoses may be used for temporary filling and discharge only

They are not to be permanently fitted

Hoses are to be selected and installed in accordance with the manufacturer's

instructions and recommendations

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: 17/30021

The Design Appraisal Document RTS-TA-PRJ PRJ11100371597/MB and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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