



# NIPPON KAIJI KYOKAI

## *Certificate*

Certificate No.  
TA21748E(R)

*OF*

### *TYPE APPROVAL*

Item : Cargo Hose (Gas)  
Product name : Multi-L.N.G. White  
Application : For liquefied gas carriers  
Applicant : Gutteling B.V.  
Pelsertstraat 9, 3044 CH Rotterdam,  
The Netherlands  
Manufacturer : The same as the Applicant.  
Documentation : See Annex.  
Specifications : See Annex.  
Limitations : See Annex.

THIS IS TO CERTIFY that the above mentioned cargo hose has been approved by Nippon Kaiji Kyokai with approval No. 07SN5NH as complying with the requirements of paragraph 5.11.7 of the *International Code for the Construction and Equipment of Ships Carrying Liquefied Gases in Bulk (IGC Code) including the amendment in IMO Resolution MSC.370(93)*, paragraph 5.4 of the *Code for the Construction and Equipment of Ships Carrying Liquefied Gases in Bulk (GC Code) including the amendment in IMO Resolution MSC.107(73)*, and the relevant requirements of the Society.

This Certificate is valid from 2 July 2021 until 1 July 2026.

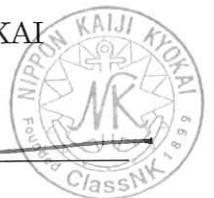
Issued at Tokyo on 6 July 2021.

NIPPON KAIJI KYOKAI

Y. Takao

General Manager

Material and Equipment Department





## 1. Documentation

- Drawing : GUT/HOSE/05-102, -103, -104/rev.01, GUT/HOSE/06-105/rev.01

## 2. Specifications and limitations

Nominal dia. (mm)	Min. Bending Radius (mm)	Max. Length (m)	Max. Working Pressure (MPa)	Bursting Pressure (MPa)	Range of Service Temperature(°C)
100	510	30	1.05	5.25	-196~50
150	675				
200	910				
250	2500				

## 3. Conditions for approval

- (1) The following production tests should be carried out for each cargo hose in the presence of the Society's Surveyor prior to putting in service.
  - (a) Hydrostatic test at ambient temperature at a pressure corresponding to 1.5 times or more of the specified maximum working pressure but in any case not more than 2/5 of the design bursting pressure.
  - (b) Visual inspection and dimension inspection
- (2) A cargo hose should not be used for the cargoes with which the hose materials are incompatible.
- (3) Information on the compatibility, in respect of corrosion, dangerous reactions, temperature, etc., of the hose materials with the cargoes intended to be used for is to be provided to the users.
- (4) A cargo hose should be marked with the following items ;
  - (a) Name of manufacturer, type and date of manufacture
  - (b) Maximum working pressure
  - (c) Maximum and minimum service temperature
  - (d) Date of hydrostatic test
- (5) When any alterations to the above mentioned specifications have been made, they should be reported to the Society for approval.
- (6) The Society reserves the right to access to the manufacturing facilities and may require further tests and/or examination where deemed necessary.