



Certificate No:
TAK0000294

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Insulation Materials for Gas Carriers

with type designation(s)
Flat Joint based on Glass Wool

Issued to
Kunshan Kyungdong Ceratech Co., Ltd.
Suzhou City, Jiangsu, China

is found to comply with
Gaztransport & Technigaz Specification Nr. M3532, M3532 – NO96 SUPER+ Flat Joints, Rev. 1, June 2022

Application :

For use in GTT NO96 Super+ type containment systems built under GTT's license.

Issued at **Hamburg** on **2023-08-15**

This Certificate is valid until **2028-08-14** .

DNV local unit: **Shanghai**

for **DNV**

Approval Engineer: **Gisle Hersvik**

Thorsten Lohmann
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: TA 281

Revision: 2022-12

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Product description

Flat Joint based on Glass Wool

Application/Limitation

The material is only approved for use in NO96 Super+ type containment systems built under licence from GAZTRANSPORT & TECHNIGAZ SAs (GTT).

Deliveries to actual shipbuilding projects shall be in compliance with the:

- "M3532 – NO96 SUPER+ Flat Joints" Specification, GTT Specification nr. M3532, Rev. 1, June 2022, and the product shall have a valid approval from GTT.

Type Approval documentation

Tests carried out

Type Testing carried out in accordance with **Type Approval documentation**.

Marking of product

Product shall be marked with *manufacturer's name, place of production and type designation*.

The marking is to be carried out in such a way that it is visible, legible and indelible. The marking of product is to enable traceability.

Periodical assessment

The scope of the Periodical Assessment is to verify that the conditions stipulated for the Type Approval is complied with and that no alterations are made to the product design or choice of materials.

Periodical assessments (for Certificate Retention / Certificate Renewal) shall be performed according to DNV-CP-0338.

This certificate is only valid if required Periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in <https://approvalfinder.dnv.com>

END OF CERTIFICATE