



Certificate No:
TAK00002B1

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Adhesive Materials for use in Insulation of Gas Carriers

with type designation(s)

Glue: ISOLEMFI 5727/02 MONO

Issued to

EMFI S.A.S

Haguenau Cedex, France

is found to comply with

Gaztransport & Technigaz Specification Nr. M3509, Glue, Rev. A, January 2007

Application :

For use in GTT NO96 type Cargo Containment System (CCS) of LNG carriers.

Issued at **Hamburg** on **2023-12-22**

This Certificate is valid until **2028-12-21** .

for **DNV**

DNV local unit: **France CMC**

Approval Engineer: **Gisle Hersvik**

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

ISOLEMFI 5727/02 MONO: one-part polyurethane-based moisture curing adhesive.

Manufactured by

EMFI S.A.S. - Niedermodern Factory, 1 rue de la Source - Z.A. Sud, 67350 Niedermodern, France

DNV local station: France

Responsibility

The Company (stated on the front page of this Certificate) takes the responsibility that both design and production are in compliance with Rules, Standards and/or Regulations listed on page 1 of this certificate.

Application/Limitation

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

Deliveries to actual shipbuilding projects shall be in compliance with the "Glue" Specification, GTT document Nr. M3509, latest revision Rev. A, January 2007, 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/package shall be marked with *manufacturer's name*: **EMFI S.A.S, France**, *place of manufacture* and *type designation*: **ISOLEMFI 5727/02 MONO**.

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

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