



Certificate no.:
TAK00002D4

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Insulation Materials for Gas Carriers

with type designation(s)
Glass Wool: PSGW (D35)

issued to

Zhejiang Pusen New Material Technology Co., Ltd.
HUZHOU, ZHEJIANG, China

is found to comply with

Gaztransport & Technigaz Specification Nr. M3026, Glass Wool (for Insulating Box), Rev. 1, June 2012

Application:

For use in NO96 type Cargo Containment Systems (CCS) of gas carriers built under GTT's license.

Issued at **Hamburg** on **2024-08-29**

This Certificate is valid until **2029-08-28**.

DNV local unit: **Shanghai**

for **DNV**

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: 2023-09

www.dnv.com

Page 1 of 2

Product description

PSGW (D35): Glass Wool elements using approved glass wool D35

- Density: 35 (-2, +3) kg/m³

Manufactured by

WILLVIC ENERGY SAVING TECHNOLOGY HEBEI CO., LTD, Dacheng city, Langfang city, Heibei Province, P.R. China

DNV local station: Shanghai

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 Cargo Containment Systems of gas carriers built under licence from GAZTRANSPORT & TECHNIGAZ SAs (GTT).

Deliveries to actual shipbuilding projects shall be in compliance with the GTT Specification Nr. M3026 "Glass Wool (for Insulating Box)" Specification, latest revision June 2012, and the product shall have a valid approval from GTT.

Any significant changes in design and / or quality of the material will render the approval invalid.

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 the *manufacturer's name*: **Zhejiang Pusen New Material Technology Co., Ltd., China, Lot No., Size, Quantity** and *type designation*.

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