EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB000079X

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

That the Non-combustible materials

with type designation(s)
TG-1 Model High Purity Ceramic Fibre

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

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2020/1170,**
item No. MED/3.13. SOLAS 74 as amended, Regulation II-2/3 II-2/5, II-2/9 & X/3, 2000 HSC Code 7 and IMO 2010 FTP Code

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2026-03-14**.

Issued at **Hamburg** on **2021-03-15**

DNV local station:
Shanghai

Approval Engineer:
Roland Priebe

Notified Body
No.: **0098**

for **DNV SE**

Christine Mydlak-Roeder
Head of Notified Body

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment", signed February 27th, 2004, and amended by Decision No 1/2018 dated February 18th, 2019.

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV SE of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.
Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

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.

Product description

The **TG-1 Model High Purity Ceramic Fibre** is a multifunctional ceramic wool product which is used for fire protection, thermal insulation and sound absorption.

Nominal thickness	20 mm
Nominal density	110 kg/m³
Nominal organic content	0,2 %

For further details refer to the documentation listed below under “Type Examination documentation”.

Application/Limitation

Approved for use as non-combustible material.

The product may be used as an integrated part of approved fire resisting divisions only when tested as such.

Each product is to be supplied with its instruction for installation and use.

Type Examination documentation

Test report No. FT15316 dated 2015-10-08 from Far East Fire Testing Centre, Shanghai, China.

This certificate is based on the previous MED-B certificate 42381-16 HH issued on 2016-02-12.

Tests carried out

Tested according to IMO 2010 FTP Code, Annex 1, Part 1.

Marking of product

The product or packing is to be marked with:

- name and address of manufacturer,
- type designation,
- fire technical rating and
- the MED Mark of Conformity (see page 1) and
- USCG approval number, if applicable.