

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB0000BXS
Revision no.:
0

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

This is to certify:

that the **Surface materials and floor coverings with low flame-spread characteristics: - pipe insulation covers**

with type designation(s)
Cyrogel Z (China)

issued to

Aspen Aerogels, Inc.
East Providence, USA

is found to comply with the Implementing Regulation (EU) 2025/1533 for
Item no. **MED/3.18d** (Row **1 of 1**)

according to the following requirements:

SOLAS 74 Reg. II-2/3, IMO Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.97(73)-(2000 HSC Code) 7, IMO MSC/Circ.1120, SOLAS 74 Reg. II-2/5, SOLAS 74 Reg. X/3

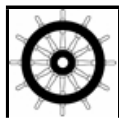
Further details of the equipment and conditions for certification are given overleaf.

Date of issue: **2026-02-05**

Expiry date: **2031-02-04**

DNV local unit:
Certification & Inspection Services

Approval Engineer:
Tessa Bieber



Notified Body
no.: **0575**

for **DNV AS**

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Christine Mydlak-Röder
Head of Notified Body



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 AS 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 USD 300 000.

Product description

'Cyrogel Z (China)'

Is a silica based aerogel insulation batting.

Nominal thickness: 5 - 10 mm

Nominal density: 160 kg/m³

Application/Limitation

Approved for use as insulation material of low flame-spread characteristics, not generating excessive quantities of smoke nor toxic products in fire.

Approved colour: White

Maximum organic content: 25%

The insulation with low-flame spread characteristics may be used in cargo spaces, mail rooms, baggage rooms and refrigerated compartments of service spaces as well as for cold service pipework/fittings for refrigeration systems (SOLAS Reg. II-2/5.3.1.1). Piping for hot and cold sanitary water is not regarded as "cold service pipework/fittings".

Extent of application is to be considered and accepted for each case/project.

Any adhesive used, other than the one used during testing, has to be tested for low flame spread characteristics according to IMO 2010 FTP Code part 5 and to be approved according to the Marine Equipment Directive and bear the Mark of Conformity.

Each product is to be supplied with its manual for installation.

Type Examination documentation

Tests carried out

Tested according to IMO 2010 FTP Code part 5 and 2.

Marking of product

The product or packaging is to be marked with name and address of manufacturer, type designation and the Mark of Conformity (see first page)