



Marine & Offshore

Certificate number: 71991/A0 BV

File number: AC11360/037/004

Product code: 5225H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

NMC Polska Sp. z o.o.

Zabrze - POLAND

for the type of product

THERMAL INSULATION MATERIALS FOR PIPING

AEROFLEX® HF, AEROFLEX® HF ROLL, AEROFLEX® HF SHEET

Density (60 ± 5) kg/m³ - Thickness from 6 mm to 50 mm

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships Part C, Chapter 4,
SOLAS 74 convention as amended, Regulations II-2/3, II-2/5, II-2/6, II-2/9, X/3
IMO Res. MSC.36(63) -(1994 HSC Code)- as amended, 7
IMO Res. MSC.97(73) -(2000 HSC Code)- as amended, 7
IMO Res. MSC.307(88) (2010 FTP Code)
IMO MSC/Circ.1120

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 19 Dec 2027

For Bureau Veritas Marine & Offshore,

At BV KATOWICE, on 19 Dec 2022,

Wojciech Lubojanski

This certificate was created electronically and is valid without signature



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: <http://www.veristarm.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=je1n97ruzg>

BV Mod. Ad.E 530 June 2017

This certificate consists of 2 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

AEROFLEX® HF, AEROFLEX® HF ROLL, AEROFLEX® HF SHEET

Black colored flexible closed-cell expanded EPDM halogen free foam insulation.

Nominal density: (60 ± 5) kg/m³.

Range of thickness: from 6 mm to 50 mm.

AEROFLEX® HF was tested glued on 1.5 mm steel sheet with adhesive type "AEROSEAL TF / HT" (application rate: 200~250 g/m²).

2. DOCUMENTS AND DRAWINGS:

2.1 - Technical data sheet "AEROFLEX® HF" dated 04/2019.

2.2 - NMC documents "Declaration of performance" both dated 15/06/2021.

3. TEST REPORTS:

3.1 - AEROFLEX® HF (thickness 6 mm; density 65 kg/m³):

Test report N° SL/Z-379/FTP5/0441a/2022, dated 28/06/2022, as per IMO 2010 FTP Code Annex 1 Part 5, from SYCHTA Laboratorium Sp. J., Poland.

3.2 - AEROFLEX® HF (thickness 50 mm; density 55 kg/m³):

Test report N° N° SL/Z-379/FTP5/0443a/2022, dated 28/06/2022, as per IMO 2010 FTP Code Annex 1 Part 5, from SYCHTA Laboratorium Sp. J., Poland.

4. APPLICATION / LIMITATION:

4.1 - The fitting aboard should be the same as used for the test.

4.2 - Approved material is considered as having low flame spread characteristics (as per IMO 2010 FTP Code Part 5).

4.3 - Approved for use as insulating material in refrigeration systems and chilled water piping for air-conditioning systems.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The foam insulation are to be supplied by **NMC Polska Sp. z o.o.** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **NMC Polska Sp. z o.o.** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 - For information, **NMC Polska Sp. z o.o.** has declared to Bureau Veritas the following production site:

**AEROFLEX Co., Ltd.
111/7, 111/11 M.2, T. Makamuku
A. Nikompattana, Rayong 21180
THAILAND**

6. MARKING OF PRODUCT:

The product or packing is to be marked with Manufacturer name, type and designation.

7. OTHERS:

It is **NMC Polska Sp. z o.o.**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

*** END OF CERTIFICATE ***