



Marine & Offshore

Certificate number: 13792/E0 BV

File number: ACI1355/024/001 and 002

Product code: 6955H

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

POLYCHEM SYSTEMS Sp. z o.o.

POZNAN - POLAND

for the type of product

THERMAL INSULATION MATERIALS FOR REFRIGERATING PLANTS

Polyurethane Foams:

PUREX WG 2031 NS B2

PUREX WG 1931 NS B2

PUREX WG 2242 NS

PUREX NG 0440 NS

Requirements:

BUREAU VERITAS NR 467: Rules for the Classification of Steel Ships

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: 14 Mar 2029

For Bureau Veritas Marine & Offshore,

At BV KATOWICE, on 14 Mar 2024,

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=nuyii9kery>

BV Mod. Ad.E 530 June 2017

This certificate consists of 2 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

	Nominal density	Description
PUREX WG 2031 NS B2	45~52 kg/m ³	Two-component system for producing rigid polyurethane foam applied by pouring
PUREX WG 1931 NS B2	34~39 kg/m ³	
PUREX WG 2242 NS	38~44 kg/m ³	
PUREX NG 0440 NS	45~52 kg/m ³	Two-component rigid polyurethane foam for the production of thermal insulation by spraying on specialized high-pressure equipment

2. DOCUMENTS AND DRAWINGS:

	Technical data sheet
PUREX WG 2031 NS B2	Revision dated 11/01/2023
PUREX WG 1931 NS B2	Revision dated 09/03/2023
PUREX WG 2242 NS	Revision dated 10/05/2023
PUREX NG 0440 NS	Revision dated 20/02/2023

3. TEST REPORTS:

3.1 - Burning behaviour: test report N° RS-19/B-122/E dated 15/04/2019, as per ISO 3582:2002/A1:2008, from C.T.O. Ship Design and Research Centre S.A., Poland (test witnessed by BV).

3.2 - Density and thermal conductivity: test report N° VWAW/DT/TB/19/0313/1 dated 08/04/2019, as per ISO 845:2010 (density) and ISO 8301:1998/A1:2018-04 (thermal conductivity), from VEOLIA Energy Warsaw S.A., Poland.

4. APPLICATION / LIMITATION:

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

4.2 - May be used on vessels granted with applicable refrigerating additional notations in accordance with Pt F Ch 7 of the Society's Rules.

4.3 - Valid for use when applicable regulations do not require non-combustible material for bulkheading.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The polyurethane foams are to be supplied by **POLYCHEM SYSTEMS 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 - **POLYCHEM SYSTEMS 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, **POLYCHEM SYSTEMS Sp. z o.o.** has declared to Bureau Veritas the following production site:

POLYCHEM SYSTEMS Sp. z o.o.
ul. Wolczynska 43
60-003 Poznan
POLAND

6. MARKING OF PRODUCT:

The products or packings are to be marked with manufacturer name, type and designation.

7. OTHERS:

7.1 - It is **POLYCHEM SYSTEMS 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.

7.2 - This Certificate supersedes the Type Approval Certificate N° 13792/D0 BV issued on 04/05/2019 by the Society.

*** END OF CERTIFICATE ***