



EC TYPE EXAMINATION (MODULE B)
CERTIFICATE No. MED049125CS/002

***This is to certify** that RINA Services S.p.A. (Notified Body No. 0474) did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Fire Protection requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of Regulation (EU) 2024/1975.*

<i>MED Item N°</i>	MED/3.59
<i>Description</i>	Expansion foam for fixed fire extinguishing systems for chemical tankers
<i>Type</i>	PROTAL SUPERECO F3
<i>Applicant</i>	PROFOAM SRL VIA MARCONI 21 28060 San Pietro Mosezzo (NO) ITALY
<i>Testing standards</i>	IMO MSC.1/Circ.1312, IMO MSC.1/Circ.1312/Corr.1.
<i>Reference standards</i>	SOLAS 74 Reg.II-2/1, IMO Res. MSC.4(48)-(IBC Code) 11, IMO MSC/Circ.553

Issued in Genoa on
February 7, 2025

This Certificate is valid until
February 6, 2030

This Certificate consists of this sheet plus an attachment

Fabio Morbioni

RINA Services S.p.A.



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Manufacturer

PROFOAM SRL

Place of Manufacturer

VIA MARCONI

21

28060 San Pietro Mosezzo (NO)

ITALY

Technical Characteristics

Foam Concentrate PROTAL SUPERECO F3	
Type of foam concentrate	Type B - Low-expansion Protein foam concentrate
Mixing Ratio	6%
Density (20 °C)	1.13 - 1.19 g/cm ³
Viscosity (20 °C)	≤ 20 mm ² /s
pH value (20 °C)	6.0 - 9.5
Lowest temperature for use	≤ - 15 °C
Expansion Ratio (20 °C)	≥ 7
25% Drainage time	≥ 7'

Field of application

Fixed foam fire extinguishing systems for cargo deck using low-expansion foam concentrate to extinguish fires of the following products, at ambient temperature and pressure:

- chemical products for which regular foam is accepted, in accordance with Chapter 17 of IBC Code and Chapter 6 of BCH Code;
- chemical products for which neither IBC Code nor BCH Code apply and for which regular foam is accepted, in accordance with the IMO MSC/Circ.553.

Tests carried out

In accordance with IMO Circular MSC.1/Circ.1312 and MSC.1/Circ.1312/Corr.1 - "Revised Guidelines for the Performance and Testing Criteria and Surveys of Foam Concentrates for Fixed Fire-Extinguishing Systems"

Technical Documentation

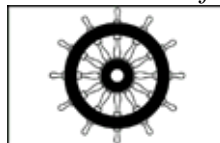
1. MPA Dresden Declaration of Conformity KB 38/24
2. MPA Dresden Test Report 20231059/Pf20
3. Profoam "PFOS-free " Declaration
4. Profoam ST Risk Evaluation

- RINA File No. CSST-24045
- RINA File No. CSST-24046
- RINA File No. CSST-24047
- RINA File No. CSST-24048



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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 control phase module (D, E or F) of Annex II of the Directive is fully complied with a written inspection agreement with a Notified Body



XXXX/YYYY

"WHEELMARK FORMAT"

XXXX *Notified Body number undertaking surveillance module*
YYYY *The year in which the mark is affixed*

General conditions for the approval

- a) The initial conditions verified by RINA at the time of the approval are to be maintained
- b) Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessment
- c) This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with RINA
- d) RINA personnel are to be allowed to witness during the performances of activities, upon their request
- e) The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules
- f) Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reappraised prior to it being placed on board vessels to which the amended regulations or standards apply.

Fabio Morbioni

RINA Services S.p.A.