



EC TYPE EXAMINATION (MODULE B)
CERTIFICATE No. MED195521CS/004

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) 2020/1170.

<i>MED Item N°</i>	MED/3.59
<i>Description</i>	Expansion foam for fixed fire extinguishing systems for chemical tankers
<i>Type</i>	PROVEX AR 3-3
<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>	IMO Res.MSC.4(48)-(IBC Code) 11, IMO MSC/Circ.553.

Issued in Genoa *on*
May 10, 2021

This Certificate is valid until
May 9, 2026

This Certificate consists of this sheet plus an attachment

Giovanni Carratino
RINA Services S.p.A.



**ATTACHMENT TO
CERTIFICATE No. MED195521CS/004
Page 1 of 2**

Manufacturer
PROFOAM SRL

Place of Manufacturer
VIA MARCONI
21
28060 San Pietro Mosezzo (NO)
ITALY

Technical Characteristics

Foam Concentrate PROVEX AR 3-3	
Type of foam concentrate	Type A - Low expansion fluoroproteinic based Alcohol Resistant foam concentrate
Mixing Ratio	3%
Density at 20°C	1.15 g/ml
Viscosity at 20°C	8.0 cST
pH at 20°C	6.7
Lowest temperature for use	-15 °C
Expansion Ratio at 20°C	7.5
Drainage 25%	3' 55"

Field of application

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

- chemical liquids as per list of Chapter 17 of the IMO International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (IBC Code) - Column L - Letter A, B and D;
- chemicals to which the IBC Code nor the BCH Code apply as per list set out in IMO Circular MSC/Circ. 553.

Tests carried out

In accordance to IMO Circular MSC.1/Circ.1312 - "Revised guidelines for the performance and testing criteria, and surveys of foam concentrates for fixed fire-extinguishing systems".

According to IMO MSC.1/Circ.1312 - "*Revised guidelines for the performance and testing criteria, and surveys of foam concentrates for fixed fire-extinguishing systems*" - Test report n°2012CS/01/3389 witnessed by RINA and issued on 07/11/2012.

Technical Documentation

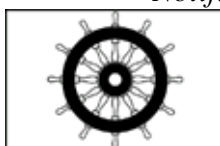
- Datasheet PROVEX AR, issued by PROFOAM Srl and filed by RINA with no. CSST-9472;
- file no. 2012/CS/01/3389 and attached Test Report no. FPE2012/CS/01/3389;
- additional Test Report no. 2016/CS/01/954/RSA issued by RINA and filed with no. CSST-13690.



**ATTACHMENT TO
CERTIFICATE No. MED195521CS/004**

Page 2 of 2

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 no 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 reapproved prior to it being placed on board vessels to which the amended regulations or standards apply.

Giovanni Carratino