

MARINE DIVISION
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Certificate N°:
14503/A0 BV
The attached Schedule forms part of the certificate
File Number : ACI 1400/031/001
Product Code : 5420H



CERTIFICATE OF TYPE APPROVAL

This is to certify that the product identified below was found to be in compliance with the relevant hereunder stated Regulations & standards

ALCOHOL FOAM CONCENTRATES FOMTEC ARC 3 x 3

MANUFACTURED BY:

Dafo Fomtec AB
Tyresö - SWEDEN

SPECIFIED REGULATIONS & STANDARDS :

SOLAS 74 Convention, as amended, F.S.S. Code Ch 6, IMO MSC/Circ. 582 & MSC/Circ. 799.

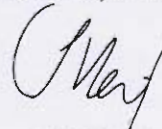
The Approval is valid until : 2010-02-04

BUREAU VERITAS GÖTEBORG


Magne Möller



At Paris la Défense, on : 2005-02-04



J. BENOIT
For the Secretary

This Certificate remains valid until the date stated on, hereunder, unless cancelled or revoked, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory into service.

This Certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested.

This Certificate is not valid without the stamp of the above mentioned BUREAU VERITAS Inspection Center.

The manufacturer should notify BUREAU VERITAS of any modification or changes to the equipment in order to obtain a valid Certificate.

The latest published Regulations or Standards referred to, above, and the Marine Division General Conditions are applicable.



THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Low expansion foam concentrate **FOMTEC ARC 3 x3**
 Alcohol Resistant Aqueous Film Forming Foam
 For use on hydrocarbon and polar solvent fires at 3 %

| | |
|-----------------------------|--------------------|
| Appearance | clear amber liquid |
| Specific gravity | 1.045 g/ml |
| Viscosity at 20°C | 1350 mPa.s |
| Pour point | -14 °C |
| Freezing point | -15 °C |
| pH at 20 °C | 7.5 |
| Min. usage temperature (°C) | -14 °C |
| Max. usage temperature (°C) | 50 °C |
| Expansion ratio | 7.5 |

2. DESIGN DRAWINGS and/or SPECIFICATIONS

As per the Manufacturer's specifications.

3. TYPE TEST REPORTS / LABORATORY RECOGNITION STATUS

Test report n° MCH 0232741/07 A2 dated 20/05/2002, as per IMO MSC/Circ. 582 and IMO MSC/Circ. 799, witnessed by Lloyd's Register.

4. MATERIALS and/or COMPONENTS REQUIRED TO BE TYPE APPROVED

None.

5. OTHER MATERIALS and/or COMPONENTS

None.

6. APPLICATION / LIMITATION OF USE

6.1 - Approval valid for ships having to comply with SOLAS 74 Convention, as amended, and for Mobile Offshore units having to comply with IMO Resolution A649 (The "MODU Code")

6.2 - To be used on hydrocarbon and polar solvent fires at 3 %

7. PRODUCTION SURVEY REQUIREMENTS

7.1 - Arrangements shall be made for a Society's Surveyor to carry out, on a periodic basis, visit of the manufacturer's premises and product audits.

7.2 - To comply with relevant provisions of the Society's Rule Note N°320 R1, in respect to Hbv products.

8. ON BOARD INSTALLATION & MAINTENANCE REQUIREMENTS

- 8.1 - The Manufacturer's instruction manual should be kept on board.
- 8.2 - Periodical tests should be in accordance with IMO MSC/Circ.582.
- 8.3- The first periodical control of foam concentrates stored on board should be performed after a period of 3 years and, after that, every year.
- 8.4 - A record of the age of the foam concentrates and of subsequent controls should be kept on board.

9. MARKING FOR IDENTIFICATION

The product or packing is to be marked with the manufacturer name, type, designation and fire technical rating.

10. OTHERS

This approval is given on the understanding that the applicant and the Manufacturer will accept full responsibility for informing shipbuilders or their sub-contractors of the proper methods of fitting and general maintenance of the approved equipment and the conditions of this approval.

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BUREAU VERITAS GÖTHENBURG

