



CERTIFIED COPY

## CERTIFICATE OF FIRE APPROVAL

This is to certify that

The product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations and with the International Convention for the Safety of Life at Sea, (SOLAS), 1974, as amended, for use on ships and offshore installations classed with Lloyd's Register, and for use on ships and offshore installations when authorised by contracting governments to issue the relevant certificates, licences, permits etc.

**Manufacturer** Dafo Fomtec AB

**Address** P.O. Box 683  
135 26 Tyresö  
Sweden


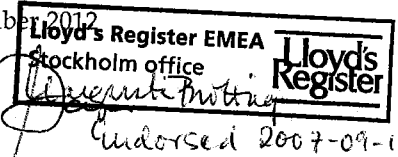
**Type** FOAM CONCENTRATE

**Description** Fire Extinguishing AFFF-AR Foam Concentrate - Type: "FOMTEC ARC 3x3"

**Specified Standard** BS EN 1568-3  
BS EN 1568-4

The attached Design Appraisal Document forms part of this certificate.

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached Design Appraisal Document are complied with and the equipment remains satisfactory in service.

Date of issue	17 September 2007	Expiry date	16 September 2012
Certificate No.	SAS F070283	Signed	 
Sheet No	1 of 2	Name	M. Farrier Surveyor to Lloyd's Register EMEA A Member of the Lloyd's Register Group

**Note:**

This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Lloyd's Register of any modification or changes to the equipment in order to obtain a valid Certificate.

"Lloyd's Register, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register Group'. The Lloyd's Register Group assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register Group entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract."



**Lloyd's Register EMEA**  
 71 Fenchurch Street, London, EC3M 4BS  
 Telephone 020 7423 2940 Fax 020 7397 4246  
 Email [dcs-stat@lr.org](mailto:dcs-stat@lr.org)

Page 2 of 2
Document number SAS F070283
Issue number 1

**DESIGN APPRAISAL DOCUMENT**

Date 17 September 2007	Quote this reference on all future communications LDSS/PAS/FITA/MF
---------------------------	-----------------------------------------------------------------------

**ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F070283**

This Design Appraisal Document forms part of the Certificate.

**APPROVAL DOCUMENTATION**

Lloyd's Register Liverpool witness certificate number MCH 0232741/07 A1, dated 20 May 2002.

**CONDITIONS OF CERTIFICATION**

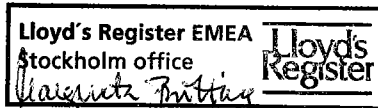
- When used in 3% minimum concentration in suitable equipment for hydrocarbon and polar solvent applications.
- Performance levels achieved:

	Hydrocarbon Fire		Polar Solvent Fire	
	Freshwater	Seawater	Freshwater	Seawater
Extinguishment	CLASS 1	CLASS 1	CLASS 2	CLASS 1
Burnback Resistance	LEVEL A	LEVEL A	LEVEL C	LEVEL C

- To be tested after a period of three years and every year thereafter to verify that they remain fit for service in accordance with Annex 4 and 5 of the test standard.
- Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure that items are of the same standard as the approved prototype.

**PLACE OF PRODUCTION**

Dafo Fomtec AB  
 P.O. Box 683  
 135 26 Tyresö  
 Sweden



*Andorsed 2007-09-17*

Martin Farrier  
 Lead Specialist  
 Product Approval Services  
 London Design Support Services  
 Lloyd's Register EMEA

**Supplementary Type Approval Terms and Conditions**

*This certificate and Design Appraisal Document relates to type approval, it certifies that the prototype(s) of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein, it does not mean or imply approval for any other use, nor approval of any products designed or manufactured otherwise than in strict conformity with the said prototype(s).*