

**MARINE DIVISION**

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**Certificate number:** 19861/A0 BV

**File number :** ACI 1400/031/002

**Product code :** 5410H

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

## TYPE APPROVAL CERTIFICATE

*as per Bureau Veritas Classification Rules*

*This certificate is issued to*

**Dafo Fomtec AB**

Tyresö - SWEDEN

*for the type of product*

### REGULAR FOAM CONCENTRATES

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Aqueous Film Forming Foam Concentrate type FOMTEC AFFF 3%/FOMTEC AFFF 6%

**Regulations and standards :**

SOLAS Convention 74, as amended, Chapter II-2 - BV Rules Part C- Chapter 4 and Part D- Chapter 7 - IMO MSC/Circ. 582 as amended by IMO MSC/Circ. 799

*This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of the Regulations and standards mentioned above.*

**This certificate is valid until : 08 Nov 2012**

At Paris la Défense, on : 08 Nov 2007

**For BUREAU VERITAS,**  
*By order of the Secretary*

Approval office

Local office : BV GOTHENBURG

Surveyor : M. Moller

L. COURREGELONGUE



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. 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 Division. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS 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 SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION :

REGULAR FOAM CONCENTRATES:

Aqueous Film Forming Foam Concentrate type FOMTEC AFFF 3%/ FOMTEC AFFF 6% for Low Expansion Foam Application.

	FOMTEC AFFF 3%		FOMTEC AFFF 6%	
	Freshwater	Seawater	Freshwater	Seawater
Expansion ration	8.4	8	8	7.5

### 2. DOCUMENTS AND DRAWINGS :

As per documentations filed under ACI 1400/031/002.

### 3. TEST REPORTS :

Test reports n°MCH 9902150/03A dated 10/09/1999 and n°MCH 9902150/06A dated 10/09/1999 as per EN 1568-3 issued by Lloyd's register.

### 4. APPLICATION / LIMITATION :

4.1- As per MSC / Circ. 553 the FOMTEC AFFF 3% and FOMTEC AFFF 6% are fire extinguishing media class B.

4.2- Application rate to be as per Rules requirements.

4.3- Periodical control of the foam concentrate to be at least in accordance with requirements in paragraph 5 of MSC/Circ.582 (records of the age of the foam concentrate and of subsequent controls should be kept on board).

4.4- Performance level achieved as per test reports:

	FOMTEC AFFF 3%		FOMTEC AFFF 6%	
	Freshwater	Seawater	Freshwater	Seawater
Fire extinguishing performance	Class 1	Class 1	Class 1	Class 1
Burnback resistance	Level C	Level B	Level C	Level B

### 5. PRODUCTION SURVEY REQUIREMENTS :

The FOMTEC AFFF 3% and FOMTEC AFFF 6% are to be manufactured, examined and tested by Dafo Fomtec AB in accordance with the type described in this certificate and Bureau Veritas Rules for the Classification of Steel Ships.

Production sites are to be recognized by Bureau Veritas as per NR320 for HBV products. To this end Dafo Fomtec AB has to make the necessary arrangements for a Society's Surveyor to perform visits and product audits at the production sites.

Dafo Fomtec AB has declared to Bureau Veritas that the type of product described in this certificate are manufactured at the following production sites :

**Dafo Fomtec**  
**Helsingborg**  
**SWEDEN**

### 6. MARKING OF PRODUCT :

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

### 7. 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.

**\*\*\* END OF CERTIFICATE \*\*\***