



Marine & Offshore

Certificate number: 06074/F0 BV

File number: ACI 1400/004/006

Product code: 5430H

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

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

Fabrik chemischer Präparate von Dr. Richard Sthamer GmbH & Co. KG
Hamburg - GERMANY

for the type of product

MULTIPURPOSE FOAM CONCENTRATES

STHAMEX-AFFF 3% F-15 #4341

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships, Part C, Chapter 4.
SOLAS 1974, as amended, Chapter II-2.

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 20 Dec 2024

For Bureau Veritas Marine & Offshore,

At BV HAMBURG, on 20 Dec 2019,

Jens Bauermeister



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 Marine & Offshore. 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 & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore 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.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 2 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

"STHAMEX®-AFFF 3% F-15 #4341"

Aqueous film-forming foam concentrate (AFFF) designed for use as a low expansion foam.
Concentration to be added to fresh or sea water : 3 % for non-polar liquids
Expansion ratio (depending on foam equipment, water pressure and induction rate) : 5-10

2. DOCUMENTS AND DRAWINGS :

Technical data sheet "STHAMEX®-AFFF 3% F-15 #4341", V-09 dated 11/04/2019.

3. TEST REPORTS :

Test report N° 2013-F-0193/Sth 157 dated 10/03/2015 from MPA Dresden, Germany, as per IMO MSC.1/Circ.1312 (including Corr.1).

4. APPLICATION / LIMITATION :

4.1- Application for low expansion fixed foam fire protection systems in machinery spaces, in cargo pump rooms and in the cargo area of oil tankers or chemical tankers.

4.2- On board installation, maintenance and periodical controls of foam concentrate on board to be carried out as per manufacturer instructions and IMO MSC.1/Circ. 1312, paragraph s 4 and 5.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The STHAMEX AFFF 3% are to be supplied by **Fabrik chemischer Präparate von Dr. Richard Sthamer GmbH & Co. KG** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **Fabrik chemischer Präparate von Dr. Richard Sthamer GmbH & Co. KG** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 - For information, **Fabrik chemischer Präparate von Dr. Richard Sthamer GmbH & Co. KG** has declared to Bureau Veritas the following production site(s):

Fabrik chemischer Präparate von Dr. Richard Sthamer GmbH & Co. KG
Liebigstrasse 5
D-22113 Hamburg
GERMANY

6. MARKING OF PRODUCT :

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

7. OTHERS :

7.1 - It is **Fabrik chemischer Präparate von Dr. Richard Sthamer GmbH & Co. KG's** responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 06074/E0 BV issued on 28/01/ 2015 by the Society.

*** END OF CERTIFICATE ***