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Certificate No: LR21313248SF Issue Date: 13/08/2021 Expiry Date: 12/08/2026

# **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 Fabrik chemischer Präparate von

Address Dr. Richard Sthamer GmbH & Co. KG, Liebigstraße 5, Hamburg, 22113,

Germany

**Type** Foam Concentrate

**Description** Fire Extinguishing High Expansion Foam Concentrate –

Type: "STHAMEX-SV-HT 2% F-10 #9273" Synthetic Foam Concentrate (2%)

**Trade Name** "STHAMEX-SV-HT 2% F-10 #9273" Synthetic Foam Concentrate (2%)

**Specified Standard** IMO MSC/Circular.670

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 EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document and its supplementary Type Approval Terms and Conditions form 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.

**Torsten Radtke** 

Senior Specialist to Lloyd's Register EMEA A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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DESIGN APPRAISAL DOCUMENT

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Issue Date:

No: LR21313248SF

Expiry Date: 12 August 2026

Reference: HPC1665011/HTSO/TA/STAT/PRJ11100327495

## **ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR21313248SF**

This Design Appraisal Document forms part of the Certificate.

This Certificate is a Renewal of Certificate Number SAS 160199

## **APPROVAL DOCUMENTATION**

- 1. Material Declaration acc. to MEPC.269(68)
- 2. Data Sheet Sthamex SV-HT 2% F-10#9273
- 3. Safety Data Sheet Sthamex SV-HT 2% F-10#9273 acc. to (EC) No. 1907/2006
- 4. ISO9001:2015 Certificate Fabrik Chemischer Präparate von Dr Richard Sthamer GmbH & Co KG

#### **TEST REPORTS**

 Test Report F900101 rev1, dated 29<sup>th</sup> April 2015 from SP Technical Research Institute of Sweden, Västeråsen, Brinellgatan 4, SE-504 62 BORÅS

## **CONDITIONS OF CERTIFICATION**

- 1. Type: "STHAMEX-SV-HT 2% F-10 #9273" may be used as a High Expansion Foam at 2% minimum concentration, in suitable equipment, for hydrocarbon fires.
- 2. The expansion ratio of the foam shall not exceed 1000 to 1.
- 3. Type: "STHAMEX-SV-HT 2% F-10 #9273" foam concentrate should be stored above the foam concentrate freezing test temperature of -20°C.
- 4. When used in a Fixed High Expansion Foam System, it shall be tested with that system in accordance with MSC.1/Circ.1384.
- 5. Each product is to be supplied with its manual for application, use, transport, storage and maintenance.
- 6. The storage container should be compatible with its foam concentrate throughout the service life of the foam.
- 7. The certificate holder is solely responsible for the products supplied under this Certificate and to ensure that their products, whether manufactured by themselves or their licensee manufacturers, if agreed by Lloyd's Register, are fully compliant with the relevant statutory regulations and Lloyd's Register Class rules as applicable and designed, manufactured and installed to the same quality and specifications as the prototype tested, including components that are designed and manufactured by third parties
- 8. 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.

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## **ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR21313248SF**

#### **NOTES**

- 1. Periodical testing of foam concentrates should be carried out not more than 3 years after being supplied to ship and after that, every year, by independent laboratories or authorised service suppliers acceptable to the Administration.
- 2. A Batch Certificate should be provided with each delivery, with a declaration of the main characteristics by the manufacturer and will be the basis for the periodical testing.

#### **PLACE OF PRODUCTION**

Fabrik Chemischer Präparate von Dr Richard Sthamer GmbH & Co KG Liebigstraße 5 22113 Hamburg Germany

Torsten Radtke

Senior Specialist Statutory Services Hamburg Technical Support Office 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).

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