

# NIPPON KAIJI KYOKAI

Certificate

Certificate No. TA18285E (N)

OF

## TYPE APPROVAL

Name of Product

: High Expansion Foam Concentrate

Product name

: STHAMEX-SV 2% F-6 #9242

Descriptions

: 2% mixing ratio type high expansion air foam

concentrate for fixed high expansion foam fire

extinguishing systems

**Expansion Ratio** 

: 500 to 1000 times

Physical Properties

: See Annex.

Chemical Components: See Annex.

Manufacturer

: Fabrik chemischer Präparate

von Dr. Richard Sthamer GmbH & Co. KG Liebigstrasse 5, 22113 Hamburg, Germany

Testing standard

: IMO MSC/Circ.670

Documentation

: See Annex.

Limitation

: Foam system is to be complied with the

requirements developed by IMO

THIS IS TO CERTIFY that the above-mentioned foam concentrate has been approved by Nippon Kaiji Kyokai with type approval No. N-1287, and that the products of the above type will be accepted for use onboard ships classed with the Society except Japanese flagged ships for compliance with the relevant requirements of the Society's Rules for the Survey and Construction of Steel Ships and those of the International Convention for the Safety of Life at Sea, 1974, as amended, subject to conditional upon that product verification be carried out by the Society.

This certificate is valid until 21 March 2023.

Issued at Tokyo on 22 March 2018.

NIPPON KAIJI KYOKAI

H. Kobayashi

General Manager

Material and Equipment Department

Initial approval date: 22 March 2018

### Annex to the certificate No. TA18285E (N)



## 1. Test Report

Test laboratory

: MPA Dresden GmbH

Report number

: 20160853/Sth 226

Issued date

: 10 August 2016

#### 2. Physical Properties

Density (20°C)

 $0.98 \sim 1.02 \text{ g/ml}$ 

Solidification point

Min. −6.0°C

pH value (20℃)

 $6.5 \sim 8.5$ 

Sediment content (20°C)

None

Viscosity

Max. 10 mm<sup>2</sup>/s (20°C)

Max. 20 mm<sup>2</sup>/s (0°C)

Max. 40 mm<sup>2</sup>/s (-6°C)

#### 3. Chemical Components

1-BUTOXY-2-PROPANOL

< 25%

SODIUM-ALKYLETHERSULFATE

: <10%

TRIETHANOLAMMONIUM-LAURYLSULFATE

: <10%

DODECANOL

: <5%

TETRADECANOL

: <5%

Water

: The Rest

~End of Certificate~