



Product name	HOTFOAM™ 2%
Description	Specialistic Hi-Ex Foam Agent
Manufacturer	SKUM
Revision	1.0/2024

ASK ABOUT THE PRODUCT

1. Description

HOTFOAM™ 2% concentrate is a fully synthetic foam compound developed to meet the requirements of high expansion systems using the inside air technique. It is suitable for applications where high quality, top performing foam concentrate is required and is intended for use as a 2% proportioned solution.

HOTFOAM™ 2% concentrate forms a stable foam when expanded by extremely hot and aggressive combustion gases. Traditional high expansion foams and detergent foams often see expansion reduce by a half, or more. This drastically affects foam performance in a high expansion system.

2. Features

- 2% high expansion foam
- **Designed for inside air application**
- **EN 1568, IMO and ISO7203 approved**
- **PZH Attestation**
- To use with HG generators at **HotFoam™**: complete system tested in reference to EN 13565-1
- Suitable for use with fresh, salt, or hard water
- Supplied ready to use in 20 L, 200 L and 1000 L packaging

3. Performance

HOTFOAM™ 2% foam concentrate is mostly used for inside air foam systems in enclosed spaces. HOTFOAM is suitable for a number of applications, such as:

- Warehouses
- Flammable liquid storage protection
- Tunnel facilities
- Marine engine and pump rooms
- Traditional outside air high expansion systems
- Engine room

HOTFOAM 2% forms high expansion foam using inside air, including combustion gases. Expansion ratios through the HOTFOAM generators are typically between 600:1 and 700:1. The foam fills the protected space, suppresses the fire within it and prevents re-ignition. It can be used with fresh, sea or brackish water.

HOTFOAM 2% is measured against international standards and specifications, including EN 1568 and IMO. Inside air HOTFOAM performance is verified against many tests and protocols, including IMO 1384. Testing includes performance evaluations on temperatures up to 1000°C.

HOTFOAM 2% is successfully tested on high expansion applications on either solid Class A materials such as wood or plastics as well as conventional Class B hydrocarbon fuels such as gasoline, diesel fuel and jet fuels. High expansion suppression capabilities are verified on polar solvents, such as ethanol.

4. Application

HOTFOAM™ 2% can be used with conventional foam proportioning equipment such as:

- MTB bladder tank and related SKUM and AN-SUL proportioners
- Fixed in-line venturi type MI inductor
- Around-the-pump type PI proportioners

HOTFOAM 2% used with lightweight foam generators HG-25 is used in high expansion foam systems.

5. Approvals

The fire performance of HOTFOAM has extended listing and approvals to comply with or to meet the requirements of the following specifications and standards:

- **PZH Attestation no 3799/2021**
- **EN 1568:2008 Part 2**
- **ISO 7203 Part 2**
- **IMO Msc 670**
- **MED. B**
- **IMO Msc 1384 inside air test**



HOTFOAM™ 2% has an operational temperature range of -2°C to 50°C. Limited exposure to temperatures above 50°C does not affect its fire fighting performance. When stored in the polyethylene drums or cans supplied, or in equipment advised by the manufacturer as part of the foam system, and within the temperature limits specified, the shelf life of HOTFOAM concentrate is approximately to 10 years. The factors affecting shelf life and stability for SKUM foam agents and storage procedures are available in Technical Bulletin 11A.

HOTFOAM can have a small colour change over time, depending on the aging of the product. The colour can be pale yellow to amber. The colour change does not impact the performance of the foam.

Freezing of the product should be avoided, and in case of freezing, a sample should be sent to **FOAMAX** to determine the physicochemical properties and performance parameters of the concentrate. Once the concentrate is frozen, the manufacturer does not guarantee the maintenance of the declared performance parameters.

7. Materials of Construction Compatibility

HOTFOAM™ 2% concentrate is verified as compatible with the following storage tank materials:

- a) The part of the installation that comes into contact with the foaming agent solution
 - Carbon steel,
 - Stainless steel,
 - Galvanized steel,
 - Aluminium,
 - Brass.
- b) The part of the system that comes into contact with the foaming agent concentrate:
 - Stainless steel 304,
 - Stainless steel 316,
 - Brass.

For compatibility with alternative materials, please contact us.

8. Quality Assurance

HOTFOAM is subject to stringent quality controls throughout all stages of production, from incoming raw ingredients to product completion. It is manufactured in an ISO 9001:2008 controlled facility to guarantee quality assurance. HOTFOAM does not contain any fluorosurfactant and is considered a fluorine free foam.

9. Typical Physiochemical Properties at 20 °C

HOTFOAM™ 2%	HI-EX 2%
Fire class	A, B
Admixing ratio volume	2%
Shape and colour	Pale yellow to amber clear liquid
Expansion	Low, medium and high
Density	1,02 ± 0,02 [g/ml]
pH	7,5 ± 0,5
Viscosity	17,0 ± 4,0 [mm ² /s]
Sediment (EN 1568)	≤ 0,1%
Expansion ratio	≥ 800
Drain time 25% [20°C, EN 1568-3]	≥ 8:00 [min:s]
Drain time 50% [20°C, EN 1568-3]	≥ 15:00 [min:s]
Pour point	≤ -9 °C
Freeze point	≤ -13 °C
Storage and usage temperature	-2 °C to +50 °C

10. Ordering Information

Part Number	Description	Shipping Weight
F202169C2	20 L	21,6 kg (47,9 lb)
F202169D1	200 L	212,5 kg (468,8 lb)
F202169T1	1000 L	1080,0 kg (2380,2 lb)

