

TECHNICAL DATA SHEET

PROSINTEX Multi-Expansion Synthetic Fluorine Free Foam (F3)

Standard Synthetic based Foam concentrate
Use on Hydrocarbon & Class "A" fires
Low, Medium & High Expansion

- ✓ **NO FLUORINE**
- ✓ **NO PFAs**



Composition



PROSINTEX is highly suitable, when used at medium or high expansion, for control or suppression of cryogenic gas (LNG, LPG) vapour release and chemical substances such as ammoniac and hydrochloric acid.

Principle of Operation



When **PROSINTEX** is used in high expansion generators, the large volumes of foam produced can rapidly flood large areas, making it highly suitable for the protection of aircraft hangars, ships' holds and warehouses.

Used with medium expansion generators, it is ideal for the protection of machinery rooms, pumping stations, spill fires or diked areas.

Induction Ratio



PROSINTEX is available in a single version effective on a wide range of class A and class B fires. It can be used at concentration ratios of 3 % to 6 %.

- 6 % dilution: 6 L foam concentrate + 94 L water = 100 L foam solution
- 3 % dilution: 3 L foam concentrate + 97 L water = 100 L foam solution

Method of Application



PROSINTEX can be used with variety of generators:

- Low expansion (1 to 20:1)
- Medium expansion (20:1 to 200:1)
- High expansion (200:1 to 1000:1)

Fields of Application

PROSINTEX is designed primarily for:



Aircraft hangars,
ships' holds, cellars



Chemical products
storage facilities



Galleries and
cable trays



Covered
Parking



Archive storage
facilities and
Machinery rooms



LNG and
LPG plants

General Characteristics

PROSINTEX conforms to all national and international standards and particularly to European standards EN 1568-1, 2 and 3.

PROSINTEX can be used with fresh and sea water.

PROSINTEX properties are not impaired in case of freezing. It recovers its initial properties as soon as it is defrosted.

Storage and Shelf-life



PROSINTEX has a long shelf life if stored properly in the original intact and unsealed packaging. Its shelf life may exceed 10 years if maintained correctly. As with all foam liquids, storage temperatures and conditions are important factors for optimal shelf life.

If the product becomes frozen during storage or transport, gentle thawing will render the product completely usable and without any impairment of its properties.

PROSINTEX, like other synthetic foam concentrates, is recommended to be stored in stainless steel or plastic containers. Furthermore, since electro-chemical corrosion can occur at joints and unions between different metal types when they are in contact with the foam liquid, it is recommended that any foam concentrate storage systems employ the same materials throughout for tanks, pipelines and fittings.

We recommend following our guidelines to ensure optimal storage conditions.

Physico-Chemical Characteristics

Foam concentrate	u.m.	3 to 6 %
density @ 20°C	kg/l	1.04 ± 0.02
pH @ 20°C		6.5 - 9
viscosity @ 20°C	mm ² /s	≤ 20
pour point *	°C	≤ - 5
undissolved solids	% V/V	≤ 0.2

* The product is also available in low temperature version with pour point of -15°C.

Typical Foam Properties

The foam properties of **PROSINTEX** vary depending on the performance characteristics of foaming equipment used and the operating conditions.

PROSINTEX tested in accordance with the EN 1568:1 to 3 gives the following typical properties:

	Foam solution 4%	
	Expansion ratio	25% Drainage Time
Low expansion	≥ 9	≥ 9'
Medium expansion	≥ 120	≥ 8'
High expansion	≥ 700	≥ 7'

* The value of the Expansion Ratio depends on the foam generator used.