

## PLUREX MD3 Foam Concentrate

### Description

PLUREX MD3 is a synthetic multipurpose foam concentrate based upon fatty alcohols, alkyl sulphates and butyl carbitol. Many fire tests during test programs have shown that it forms stable foam blanket on burning non-polar solvents. It also forms stable low, medium and high expansion foam which rapidly fills large spaces.

PLUREX MD3 foam Concentrate can be used to produce foam with expansion ratios ranging from 8:1 to 1000:1, depending upon the type of equipment and its operating pressure. The recommended proportioning is 3% (3 litres of PLUREX MD3 with 97 litres water).

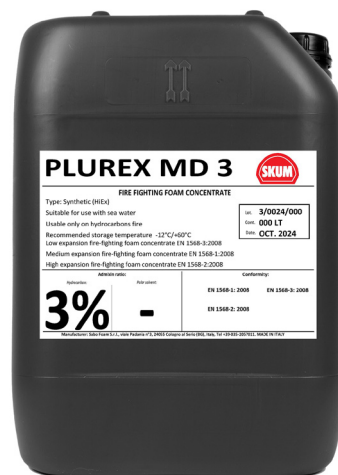
### Performance

The performance of PLUREX MD3 foam concentrate when used at high expansion will vary depending upon the performance characteristics of the equipment. Expansion ratios through high expansion generators typically are between 200:1 and 1000:1. For this reason, it is important for the proper design of a high expansion system that the PLUREX MD3 foam Concentrate be specifically tested with the foam generators.

Medium expansion foam generators typically deliver expansion ratios between 50:1 and 200:1.

PLUREX MD3 can be used by most conventional foam equipment such as:

- Balance pressure pump proportioning equipment
- Bladder tank and related proportioners
- Around-the-pump proportioners
- Fixed and portable In-line venturi type inductors
- Fixed or handline nozzles with fixed induction/pick up tubes



### Application

PLUREX MD3 is a multi-purpose firefighting agent, used in fighting Class A and Class B hazards, both indoors and outdoors. It is used only with air aspirating foam discharge devices except when used as a wetting agent on Class A fuels.

When used with high expansion generators, PLUREX MD3 is capable of totally flooding large rooms and enclosures allowing it to effectively suppress horizontal and vertical (three-dimensional) fires. High expansion foam is also effective in reducing vapour concentrations downwind from hazardous low boiling point gaseous products such as ammonia spills.

When used with medium expansion foam equipment, PLUREX MD3 forms a foam blanket which prevents the release of fuel vapour and also provides additional cooling due to the higher water content. Medium expansion foam has benefits in outdoor applications because the foam is less affected by wind conditions.

PLUREX MD3 is ideal for fixed medium and/or high expansion system, Fire Brigades, aircraft hangars.

The foam produced by PLUREX MD3 extinguishes hydrocarbon fires best when applied by gentle application. PLUREX MD3 is compatible with all foam-compatible dry chemical extinguishing powders.

Sea water can be used without an increase in the application rate.

## Approvals

PLUREX MD3 is tested and approved according to:

- EN 1568: 2018 Part. 1
- EN 1568: 2018 Part. 2
- EN 1568: 2018 Part. 3
- OKF - TVL (Hungary)



## Storage and shelf life

PLUREX MD3 has an operational temperature range of -12°C and +60°C. Limited exposure to temperatures above +60°C does not affect the firefighting performance.

SKUM concentrates have demonstrated effective firefighting performance with contents stored in the original package under proper conditions for more than 10 years.

The factors affecting shelf life and stability for SKUM agents are discussed in detail in our Technical Bulletin for storage recommendation.

If the product is frozen during storage or transportation, the concentrate should be thawed and used without any degeneration of the performance.

## Eco-toxicology and disposal

PLUREX MD3 is environmentally safe and rapidly biodegradable. PLUREX MD3 does not contain any fluorosurfactant and is therefore considered as a fluorine free foam.

## Safety and handling

See our corresponding "Material Safety data sheet".

## Quality assurance

PLUREX MD3 is subject to stringent quality controls throughout production, from incoming raw materials inspection to finished product testing, and is manufactured in an ISO 14001 certified facility.

## Typical Properties

PLUREX MD3	Multi-purpose Hi-ex foam
Fire Classes	A and B
Shape and colour	Pale yellow clear liquid
Smell	Characteristic, surfactant-alike
Density (20°C)	1.03 ±0.02 [g/ml]
pH (concentrate, 20°C)	7.0 ±0.5
Viscosity 20°C	8.0 ±2.0 [mm <sup>2</sup> /s]
Sediment (EN 1568)	0.1 [%]
Admixing ratio	3 [% Vol.]
Expansion Ratio (EN 1568-3)	9.0
Drain Time 25%, (20°C, EN 1568-3)	8:00 [min:s]
Drain Time 50%, (20°C, EN 1568-3)	≥15:00 [min:s]
Expansion	Low, Medium, High
Freezing Point	-17 [°C]
Pour Point	-15 [°C]
Recommended storage/ Usage temperature	-12 to +60 [°C]

## Ordering information

PLUREX MD3 can be supplied in cans, drums, totes or Bulk (contact us for Bulk delivery details).

Part No.	Description
F203331C2	20 Litre can
F203331C1	25 Litre can
F203331D1	200 Litre drum
F203331T1	1000 Litre tote

Safety Data Sheets (SDS) are available at [www.skum.com](http://www.skum.com)

**Note:** While NFF (also known as SFFF) agents may be compatible with existing AFFF and/or NFF hardware, system contamination from fluorinated agents may exist if hardware and piping is not replaced upon conversion to non-fluorinated agents.

**Note:** The converted metric values in this document are provided for dimensional reference only and do not reflect an actual measurement.

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