SABO española
www.sabo-esp.com

PLUREX NK

Foam concentrate

High stability synthetic foam
Low, Medium and High Expansion foam

Product description

PLUREX NK is a fire fighting foam concentrate obtained by the formulation of synthetic surfactants and high stability foaming agents that, used with dedicated foaming equipment, can generate foams with expansion from 5 to 1000.

PLUREX NK, compared to the standard synthetic high expansion foams, provides an even higher foam resistance to drainage and destruction caused by the contact with some particularly damaging pollutants.

PLUREX NK is available on two different concentrations : 3x6 (3% on hydrocarbon fires, 6% on alcohol fires). 6x6 (6% on hydrocarbon fires, 6% on alcohol fires).

On fires involving foam-destroying liquids we recommend a proportioning rate of 6% (v/v) of PLUREX NK and a gentle soft application of the foam. It should be proportioned at 6% when applied at low expansion for extinction of medium polar liquids (TBA/MTBE-added gasoline, light hydrocarbons, etc.).

Performance

The performance of PLUREX NK (3x6 version) has been measured against all EN1568 parts 1 to 4. 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. Medium expansion foam generators typically deliver expansion ratios between 50:1 and 200:1.

Exceptional foaming power even when using cold and sea water. Water at 0°C and hard water can be used without spoiling the foam efficacy.

Extremely fast extinction on any type of fire, as the high surface activity of PLUREX NK provides a strong wetting and cooling action and generates foams having even a greater heat resistance and plasticity.

Great extinguishing power even on light hydrocarbons and gasoline containing additives such as TBA or MTBE that, due to their foam destroying action, make the extinction particularly difficult when using conventional synthetic or standard protein foam concentrates.

Drainage resistance of PLUREX NK is more than double than any standard synthetic foaming liquid. This makes it particularly suitable even for flooding spills of volatile and aggressive chemicals (LPG, carbon sulphide, NH3 anhydrous, etc.).

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

- Balance pressure pump proportioning equipment
- Bladder tank and related proportioners
- Fixed and portable In-line venturi type inductor

Approvals

PLUREX NK (3x6) is EN approved with the followings classifications:
- EN1568-1 (medium expansion on hydrocarbon fires)
- EN1568-2 (high expansion on hydrocarbon fires)
- EN1568-3 (low expansion on hydrocarbon fires)
- EN1568-4 (low expansion on alcohol fires)

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Application

PLUREX NK is a multi purpose firefighting agent, it is for use only with air aspirating foam discharge devices.

When used with high expansion generators, PLUREX NK is capable of totally flooding large rooms and enclosures allowing it to effectively extinguish horizontal and vertical (three-dimensional) fires.

When used with medium expansion foam equipment, PLUREX NK forms a foam blanket which prevents the release of fuel vapor 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. Emergency landings blanketing is also a possible application.

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

Storage and shelf life

PLUREX NK has an operational temperature range of -5°C and +60°C. PLUREX NK 6 has an operational temperature range of –7°C and +60°C.

When stored in the packaging supplied (polyethylene drums or cans) or in equipment recommended by the manufacturer as part of the foam system and within the temperature limits specified, the shelf life of PLUREX NK concentrate is about 20-25 years.

The factors affecting shelf life and stability for SABO FOAM agents are discussed in detail in our Technical Bulletin for storage recommendation. Please, for more information: comercial@sabo-esp.com

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

Safety and handling

See our corresponding "Material Safety data sheet".

Quality insurance

PLUREX NK – as with all SABO ESPAÑOLA Products – is subject to a very stringent quality controls throughout all stages of production, from incoming raw to the complete product and is manufactured in an ISO 9001:2008 con-trolled facility. Quality assurance is therefore guaranteed.

Typical properties

	PLUREX NK (3x6)		PLUREX NK 6 (3x6)
Product type	Synthetic HIEX AR		
Fire Classes	A and B		
Forma y color	Líquido marrón		
Olor	Característico de los tensioactivos		
Density (20ºC)	1,06 ± 0,02 [g/ml]		1,08 ± 0,02 [g/ml]
pH (20ºC)	7,0 ± 0,5		
Viscosity (20ºC)	600 ± 60 [mm^2/s]		500 ± 100 [mm^2/s]
Sediment (EN 1568)	≤ 0,1 [%]		
Admixing ratio	3 [%] *hydrocarbon*	6 [%] *polar*	6 [%]
Expansion ratio (EN 1568-3)	≥ 7,0	≥ 9,0	≥ 9,0
Drain Time (20ºC, EN 1568-3)	[min:s]	[min:s]	[min:s]
25%	≥ 6:00	≥ 15:00	≥ 15:00
50%	≥ 10:00	≥ 25:00	≥ 25:00
Expansion	Low, Medium, High		
Freezing Point	≤ -10 [ºC]		≤ -13 [ºC]
Pour point	≤ -8 [ºC]		≤ -10 [ºC]
Recommended storage/ Usage temperature	-5 to +60 [ºC]		-7 to +60 [ºC]

Ordering information

PLUREX NK (3x6) can be supplied in cans, drums or totes.
Part No. F216333C1 25 Liter can
Part No. F216333D1 200 Liter drum
Part No. F216333T1 1000 Liter tote

PLUREX NK 6 (6x6) can be supplied in cans, drums & totes.
Part No. F216334C1 25 Liter can
Part No. F216334D1 200 Liter drum
Part No. F216334T1 1000 Liter tote