SABO FOAM

www.sabofoam.com

APIROL FX3
Foam Concentrate

UL LISTED

High performance Fluoro Protein foam concentrate at 3% for hydrocarbons fires

Product description

APIROL FX3 Fluoroprotein Foam Concentrate is formulated from hydrolyzed protein, fluorochemical surfactants, foam stabilizers (metal salts), bactericide, corrosion inhibitors, freezing point depressants and solvents. It is transported and stored as a concentrate to provide ease of use and considerable savings in weight and space.

It is intended for use as a 3% proportioned solution either in fresh, salt or hard water. The correct proportioning ratio is 3 parts of concentrate to 97 parts of water.

Two fire extinguishing mechanisms are in effect when using **APIROL FX3**. First, a foam blanket is formed which works to prevent the release of fuel vapor. Second, the water content of the foam provides a cooling effect.

Performances

APIROL FX3 is measured against specifications and standards such as Underwriters Laboratories Standard UL 162, latest edition.

When used with fresh or salt water or water of any hardness at the correct dilution and with most conventional foam making equipment, the expansion ratio will vary depending on the performance characteristics of the equipment. Air aspirating discharge devices produce expansion ratios from 6 to 1 to 12 to 1 depending primarily on type and flow rate. In general, the higher the flow rate the higher the expansion ratio. Thus, monitors and foam chambers normally produce higher expansion ratios than foam water sprinkler heads and hand held type nozzles.

Typical expansion ratios for foam chambers are in the range of 5 to 1 to 7 to 1, and for foam water sprinkler heads in the range of 3 to 1 to 6 to 1. Subsurface injection is a special case where generally speaking, expansion ratios of 2 to 1 to 3 to 1 are preferred but up to 4 to 1 is also effective.

Application

APIROL FX3 Fluoroprotein Foam Concentrate is intended for use on Class B hydrocarbon fuels having low water solubility such as various crude oils, gasolines, diesel fuels, aviation fuels, etc. It is not suitable for use on fuels having appreciable water solubility (polar solvents), i.e.,
methyl and ethyl alcohol, acetone and methyl ethyl ketone. This concentrate can be used only with air aspirating type discharge devices.

It can also be used with foam compatible dry chemical extinguishing agents without regard to the order of application, to provide even greater fire protection capability.

APIROL FX3 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 inductor
- Fixed or handline nozzles or Monitors with fixed induc tion/pick up



We reserve the right to improve our products within the tolerances being compliant to approvals without prior notice . © Tyco International

SABO FOAM

www.sabofoam.com

Foam Concentrate

Approvals

APIROL FX3 is approved or listed according to:

EN 1568 Part. 3
UL-162
IMO Msc / Circ. 582
UK Defense Standard 42/40
UNI 9493 (Italian Ministry of Interior)
GESIP 99/02 @ 2.5 L/m²/min (France)

Storage and shelf life

APIROL FX3 fluoroprotein foam has an operational temperature range of –10°C and +60°C. Limited exposure to temperatures above +60°C does not affect the firefighting performance.

When stored in the packaging supplied (polyethylene drums or pails) within the temperature limits specified, or in equipment recommended by the manufacturer as part of the foam system, the shelf life of **APIROL FX3** Fluoroprotein Foam Concentrate is generally in excess of 10 years.

If the product is frozen during storage or transportation, thawing will render the product completely usable.

The factors affecting shelf life and stability for **APIROL** Agents are discussed in detail in our Technical Bulletin for storage recommendation.

Safety and handling

See our corresponding "Material Safety data sheet".

Compatibility

There are no specifications or standards which address the subject of compatibility of different manufacturer's brands of fluoroprotein foam concentrates. In an emergency or if the manufacturer has supporting test data to substantiate that the mixture meets the same requirements as the individual component concentrates, they may be mixed together in the same storage vessel.

Different types of foam concentrates, i.e., AFFF and fluoroprotein base should not be mixed under any circumstances.

Quality insurance

APIROL FX3 – as with all TYCO 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 9001:2000 controlled facility. Quality assurance is therefore guaranteed.

Typical properties

APIROL FX3	FP
Fire Classes	A and B
Shape and color	Brown clear liquid
Smell	Characteristic, Protein
Density (20°C)	1,16 ±0.02 [g/ml]
pH (concentrate, 20°C)	7,0 ±0.5
Viscosity 20°C	8,0 ±2,0 [mm²/s]
Sediment (EN 1568)	≤ 0,25 [%]
Admixing ratio	3 [% Vol.]
Expansion Ratio (EN 1568-3)	≥ 7,0
Drain Time 25%, (20°C, EN 1568-3)	≥ 5:00
Drain Time 50%, (20°C, EN 1568-3)	≥ 9:00
Expansion	Low, (Medium)
Freezing Point	≤ -15 [°C]
Pour Point	≤ -12 [°C]
Recommended storage/Usage temperature	-10 to +60 [°C]

Ordering information

APIROL FX3 can be supplied in cans, drums, totes or Bulk (contact us for Bulk delivery details).

Part No. F503323C1	25 Liter can
Part No. F503323D1	200 Liter drum
Part No. F503323T1	1000 Liter tote
Part No. F503323B1	Bulk (Liter)

We reserve the right to improve our products within the tolerances being compliant to approvals without prior notice . © Tyco International