

New

Premium performance Aqueous Film-Forming Foam concentrate AFFF at 3% for hydrocarbon Fires



Description

towalex AFFF 3% Super is an aqueous film forming foam concentrates (AFFF) based on fluoro-surfactants, hydrocarbon tensides and glycolethers for use at 3% induction ratio.

AFFF is a synthetic concentrate comprised of detergent and fluorocarbon surfactant that form a foam with the inherent ability to produce a vapor suppressing aqueous film on the surface of the hydrocarbon fuels.

Performance

towalex AFFF 3% Super is measured against highest specifications and standards such as Underwriters Laboratories Standard UL 162, latest edition.

AFFF provides a rapid flame knock down on class B fires involving hydrocarbon fuels such as oil, petroleum and aviation fuels.

On application, the foam spreads rapidly to form an aqueous film and foam blanket. The aqueous film suppresses the release of fuel vapors. The foam blanket effectively excludes oxygen from the fuel surface, extinguishing the fire and preventing re-ignition.

Additionally it provides a cooling function on the fuel by enclosed water and makes the water float on fuel surfaces in spite of it's usually higher density.

towalex AFFF 3% Super 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

Application

towalex AFFF 3% Super is ideal for sprinkler system application, process plant, pumping stations, Aircraft hangars and tank protection and for any non-air-aspirating discharge device like hand line nozzles. **towalex AFFF 3% Super** is also designed to meet high performance requests of Airport Fire trucks security required by International Civil Airport Organization (ICAO).

The foam produced by **towalex AFFF 3% Super** extinguishes hydrocarbon fires by either forceful or soft application.

towalex AFFF 3% Super is compatible with all foam-compatible dry chemical extinguishing powders.

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

Approvals

towalex AFFF 3% Super is listed / tested according to:
UL-162
ICAO level B



Storage and shelf life

towalex AFFF 3% Super has an operational temperature range of -7°C and $+60^{\circ}\text{C}$. Limited exposure to temperatures above $+60^{\circ}\text{C}$ does not affect the firefighting performance.

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 **towalex AFFF 3% Super** Concentrate is about 20-25 years.

The factors affecting shelf life and stability for TOWALEX foam 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.

Safety and handling

See our corresponding "Material Safety data sheet".

Materials of Constructions Compatibility

Tests have been performed with TOWALEX Concentrate verifying its compatibility with standard carbon steel "black" pipe and pipe manufactured from various stainless steel or brass compounds.

Alternative pipe, fittings, and valves may be used in some cases if acceptable to the customer and/or the authority having jurisdiction.

Refer to our Technical Bulletin, addressing acceptable materials of construction for use with TOWALEX foam concentrates.

Galvanized pipe and fittings must not be used in areas where undiluted concentrate will contact them since corrosion will result.

Please first consult Tyco for specific guidelines concerning materials of construction.

Quality insurance

towalex AFFF 3% Super – 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

towalex AFFF 3% Super	AFFF
Fire Classes	A and B
Shape and color	Pale yellow clear liquid
Smell	Characteristic, surfactant-alike
Density (20°C)	1,03 ±0.02 [g/ml]
pH (concentrate, 20°C)	8,0 ±0.5
Viscosity 20°C	3,0 ±2.0 [mm ² /s]
Sediment (EN 1568)	≤ 0,05 [%]
Admixing ratio	3 [% Vol.]
Expansion	Low, Medium
Freezing Point	≤ -10 [°C]
Pour Point	≤ -10 [°C]
Recommended storage/Usage temperature	-7 to +60 [°C]

Ordering information

towalex AFFF 3% Super can be supplied in cans, drums, totes or Bulk (contact us for Bulk delivery).

Part No. F103141C1	25 Liter can
Part No. F103141D1	200 Liter drum
Part No. F103141T1	1000 Liter tote
Part No. F103141B1	Bulk