

TOWALEX AFFF 3% SUPER AFFF 3% Foam Concentrate

Features

- 3% on hydrocarbon fires
- Newtonian viscosity
- UL-162, EN1568 and ICAO level B approved
- Freeze protected to -10°C
- For use with aspirating and non-aspirating discharge devices
- Suitable for use with fresh, salt or hard water
- Supplied ready to use in 20, 25, 200 or 1000 litres packaging

Description

TOWALEX AFFF 3% SUPER is a high performance aqueous film forming foam concentrate (AFFF) based on fluorosurfactants, hydrocarbon tensides and glycol ethers 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 vapour suppressing aqueous film on the surface of the hydrocarbon fuels.

Performance

TOWALEX AFFF 3% SUPER is measured against highest specifications and standards such as UL-162 standard latest edition. It also meets the 60 seconds extinguishing time required to pass the ICAO level B performance.

TOWALEX AFFF 3% SUPER is now also measured against the latest specifications of the European Standard EN1568 : 2008 edition achieving the highest rating on Water immiscible fuel at low and medium expansion.

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 vapours. 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.



Application

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
- Fixed or handline nozzles with fixed induction/pick up tubes

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 and ARFF security required by the International Civil Airport Organization (ICAO).

The foam produced by TOWALEX AFFF 3% SUPER extinguishes hydrocarbon fires by either forceful or gentle 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

The fire performance of TOWALEX AFFF 3% SUPER is measured and listed according to:

- UL-162
- EN1568: 2008 Part 1 and 3
- ICAO level B
- Complies with EPA 2015 Stewardship Program



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 SKUM foam agents are discussed in detail in our Technical Bulletin for storage recommendation.

Safety and Handling

See our corresponding "Material Safety data sheet".

Materials of Construction 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 SKUM foam concentrates.

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

For more information regarding specific guidelines about construction materials, please email info@skum.com

Quality Assurance

TOWALEX AFFF 3% SUPER – as with all TYCO Products – is subject to very stringent quality controls throughout all stages of production, from incoming raw to the complete product and is manufactured in an ISO 9001:2008 controlled facility. Quality assurance is therefore guaranteed.

Typical Properties at 20°C

■ TOWALEX AFFF 3% SUPER	AFFF 3%
■ Fire Classes	A and B
■ Shape and colour	Pale yellow clear liquid
■ Smell	Characteristic, surfactant-like
■ 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)	≤ 0.1 [%]
■ Admixing ratio	3 [% Vol.]
■ Expansion	Low, Medium
■ Freezing Point	≤ -10 [$^{\circ}\text{C}$]
■ Pour Point **	≤ -10 [$^{\circ}\text{C}$]
■ Recommended storage/ Usage temperature	-7 to $+60$ [$^{\circ}\text{C}$]

** -7°C following UL-162 listing standard criteria

Ordering Information

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

<u>Part No.</u>	<u>Description</u>
■ F103141C2	20 litre can
■ F103141C1	25 litre can
■ F103141D1	200 litre drum
■ F103141T1	1000 litre tote
■ F103141B1	Bulk