

SKUM TOWALEX ARC 3X3 MASTER AFFF-AR 3% FOAM CONCENTRATE

Features

- 3% alcohol resistant concentrate
- EN1568 approved and LastFire tested
- Freeze protected to -18°C
- For use on both hydrocarbon and polar solvents
- 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

SKUM TOWALEX ARC 3x3 MASTER is a premium high quality synthetic foam concentrate based on surfactant, fluorosurfactant, polymer and fluoropolymer. The foam forms a film of water on hydrocarbons and a polymer film when used on polar solvents.

TOWALEX ARC 3x3 MASTER, is an alcohol resistant and aqueous film forming foam (AFFF) concentrate suitable for extinguishing fires involving polar and/or foam-destroying liquids such as alcohols, esters, ketones, amines as well as hydrocarbon fires involving petrol, gas turbine, fuel or oil.

It is intended for use as a 3% proportioned solution on both polar solvent and hydrocarbon fuels in fresh, salt or hard water.

Performance

TOWALEX ARC 3x3 MASTER is measured against the highest specifications and standards including the latest European EN1568: 2008 update

For fires involving foam-destroying liquids we recommend a proportioning rate of 3% (v/v) of TOWALEX ARC 3x3 MASTER and a gentle indirect application of the foam, using foam deflectors so that the polymer film is more effective.

TOWALEX ARC 3x3 MASTER is particularly suitable to rapidly extinguish large surface hydrocarbon fires; the foam has excellent flow properties at a proportioning rate of 3% (v/v) and can be applied direct to the fire surface. The water content of the foam also produces a cooling effect to speed up extinguishment



Application

TOWALEX ARC 3x3 MASTER 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
- Fixed or handline nozzles with fixed induction/pick up

TOWALEX ARC 3x3 MASTER is used wherever it is essential to extinguish a fire rapidly to save human lives and to avoid high material losses. Examples for its use are Chemical plants, refineries, tank farms, ships, drilling rigs and military installations.

TOWALEX ARC 3x3 MASTER is also very effective when subsurface injection is used to fight tank fires. Due to its fluorinated surfactants content the foam absorbs only small quantities of hydrocarbons.

TOWALEX ARC 3x3 MASTER is compatible with all foam-compatible dry chemical extinguishing powders. Due to the velocity of the dry chemical discharge, care must be taken not to submerge the polymeric membrane below the fuel surface.

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

Approvals

The fire performance of TOWALEX ARC 3x3 MASTER is measured and listed according to:

- EN1568 : 2008 Part 1, 3 and 4
- Tested against LastFire protocol



Storage and Shelf Life

TOWALEX ARC 3x3 MASTER has an operational temperature range of -18°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 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 ARC 3x3 MASTER 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.

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 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 ARC 3x3 MASTER— 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 ARC 3x3 MASTER	AFFF-AR 3x3
■ Fire Classes	A and B
■ Shape and colour	Pale yellow clear liquid
■ Smell	Characteristic, surfactant-alike
■ Density (20°C)	1.06 ±0.02 [g/ml]
■ pH (concentrate, 20°C)	7.5 ±0.5
■ Viscosity 20°C (*)	3000 ±300 [Cps]
■ Sediment (EN 1568)	≤ 0.1 [%]
■ Admixing ratio	3 [% Vol.]AFFF AR
■ Expansion (EN 1568-3)	≥ 8.0
■ Drain Time 25%, (20°C, EN 1568-3)	≥ 7:00
■ Drain Time 50%, (20°C, EN 1568-3)	≥ 11:00
■ Expansion	Low, Medium, (High)
■ Freezing Point	≤ -23 [°C]
■ Pour Point	≤ -20 [°C]
■ Recommended storage/ Usage temperature	-18 to +60 [°C]

Ordering Information

SKUM TOWALEX ARC 3x3 MASTER can be supplied in cans, drums, totes.

<u>Part No.</u>	<u>Description</u>
■ F113170C1	25 Litre can
■ F113170D1	200 Litre drum
■ F113170T1	1000 Litre drum

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