

HYDRAL S6 Foam Concentrate

Aqueous Film-Forming Foam (AFFF) concentrate at 6% for hydrocarbon fires

Description

HYDRAL S6 is an aqueous film forming foam concentrates (AFFF) based on fluorosurfactants, hydrocarbon tensides and glycol ethers for use at 6% induction ratio.

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

Performance

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.

HYDRAL S6 can be used by most conventional foam equipment such as:

- Balance pressure pump proportioning equipment
- Around-the-pump proportioners
- Fixed and portable In-line venturi type inductors
- Fixed or handline nozzles with fixed induction/pick up tubes
- Fire trucks



Application

HYDRAL S6 is designed for airport fire trucks security, aircraft hangars and all Hydrocarbon fire protection in both aspirating or non-air-aspirating nozzles.

The foam produced by HYDRAL S6 extinguishes hydrocarbon fires by either forceful or gentle application.

HYDRAL S6 is compatible with all foam-compatible dry chemical extinguishing powders.

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

Approvals

HYDRAL S6 is tested and approved according to:

- ICAO Level B (International Civil Aviation Organization)



Storage and Shelf Life

HYDRAL S6 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 HYDRAL S6 concentrate is about 20-25 years.

The factors affecting shelf life and stability for SABOFOAM 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 HYDRAL 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 SABOFOAM 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. For more specific information, please email at: sabofoam.levate@tycoint.com

Quality Assurance

HYDRAL S6 – 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

■ HYDRAL S6	AFFF 6%
■ Fire Classes	A and B
■ Shape and colour	Pale yellow clear liquid
■ Smell	Characteristic, surfactant-alike
■ Density (20°C)	1.03 ± 0.02 [g/ml]
■ pH (concentrate, 20°C)	7.5 ± 0.5
■ Viscosity 20°C	2.0 ± 1.0 [mm ² /s]
■ Sediment (EN 1568)	≤ 0.1 [%]
■ Admixing ratio	6 [% Vol.]
■ Expansion Ratio (EN 1568-3)	≥ 8.0
■ Drain Time 25%, (20°C, EN 1568-3)	$\geq 2:30$ [min:s]
■ Drain Time 50%, (20°C, EN 1568-3)	$\geq 4:00$ [min:s]
■ Expansion	Low, Medium
■ Freezing Point	≤ -13 [%]
■ Pour Point	≤ -10 [%]
■ Recommended storage/ Usage temperature	-7 to $+60$ [°C]

Ordering Information

HYDRAL S6 can be supplied in cans, drums, totes or Bulk (contact us for Bulk delivery).

<u>Part No.</u>	<u>Description</u>
■ F106348C2	20 Litre drum
■ F106348C1	25 Litre drum
■ F106348D1	200 Litre drum
■ F106348T1	1000 Litre tote
■ F106348B1	Bulk

www.sabofoam.com