

HYDRAL 6 Foam Concentrate

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

Description

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

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 6 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



Application

HYDRAL 6 is ideal for marine application on board vessels hydrocarbon flammable liquids, pumping stations, aircraft hangars, tank protection and for non-air-aspirating handline nozzles.

The foam produced by HYDRAL 6 extinguishes hydrocarbon fires by either forceful or gentle application.

HYDRAL 6 is compatible with all foam-compatible dry chemical extinguishing powders.

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

Approvals

HYDRAL 6 is approved according to:

- IMO MSC Circ.582 by Lloyds Register
- UNI 9493 (Italian Minister of Interior)
- GESIP 99/02 @ 2 l/m²/min (France)



Storage and Shelf Life

HYDRAL 6 has an operational temperature range of -7°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 HYDRAL 6 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 information, please email at: sabofoam.levate@tycoint.com

Quality Assurance

HYDRAL 6 – 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 6	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	3.0 ±1[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)	≥ 2:30 [min:s]
■ Drain Time 50%, (20°C, EN 1568-3)	≥ 4:00 [min:s]
■ Expansion	Low, Medium
■ Freezing Point	≤ -12 [%]
■ Pour Point	≤ -10 [%]
■ Recommended storage/ Usage temperature	-7 to +60 [°C]

Ordering Information

HYDRAL 6 can be supplied in cans, drums, totes or Bulk (contact us for Bulk delivery).

<u>Part No.</u>	<u>Description</u>
■ F106306C1	25 Litre drum
■ F106306D1	200 Litre tote
■ F106306T1	1000 Litre tote
■ F106306B1	Bulk

www.sabofoam.com