

## Premium performance Aqueous Film Forming Foam concentrate AFFF at 3% for Hydrocarbon Fires

### Description

HYDRAL T3 is a high quality aqueous film forming foam concentrates (AFFF) based on fluorosurfactants, hydrocarbon tensides and glycoethers for use at 3% concentration.

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

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 reignition.

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

HYDRAL T3 can be used by most conventional foam equipment such as:

- Balance pressure pump proportioning equipment
- Bladder tank and related proportioners
- Aroundthepump proportioners
- Fixed and portable Inline venturi type inductors
- Fixed or handline nozzles with fixed induction/pick up tubes

### Application

HYDRAL T3 is ideal for Sprinkler systems, process plants, pumping stations, Aircraft hangars, tank protection and for non air aspirating hand nozzles.

The foam produced by HYDRAL T3 extinguishes hydrocarbon fires by either forceful or soft application.

HYDRAL T3 is compatible with all foam compatible dry chemical extinguishing powders.

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

### Approvals

HYDRAL T3 is approved according to: EN-1568 latest revision 2008



## Storage and Self Live

HYDRAL T3 has an operational temperature range of  $-12^{\circ}\text{C}$  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 T3 Concentrate is about 2025 years.

The factors affecting shelf life and stability for SABO AFFF 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 de-generation 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 HYDRAL 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 SABO Española for specific guidelines concerning materials of construction.

## Quality insurance

HYDRAL T3 – as with all SABO Española 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

HYDRAL T3	AFFF
Fire Classes	A and B
Shape and color	Pale yellow clear liquid
Smell	Characteristic, surfactant-alike
Density (20°C)	1,04 $\pm$ 0.02 [g/ml]
pH (concentrate, 20°C)	7,5 $\pm$ 0.5
Viscosity 20°C	4.0 $\pm$ 1.0 [mm <sup>2</sup> /s]
Sediment (EN 1568)	$\leq$ 0,05 [%]
Admixing ratio	3 [% Vol.]
Expansion Ratio (EN 15683)	$\geq$ 8,0
Drain Time 25%, (20°C, EN 15683)	$\geq$ 2:30 [min:s]
Drain Time 50%, (20°C, EN 15683)	$\geq$ 4:00 [min:s]
Expansion	Low, Medium
Freezing Point	$\leq$ -18 [°C]
Pour Point	$\leq$ -15 [°C]
Recommended storage/Usage temperature	-12 to +60 [°C]

## Ordering information

HYDRAL T3 can be supplied in cans, drums, totes or Bulk (contact us for Bulk delivery).

Part No. F103345C2 20 Liter can Part  
No. F103345C1 25 Liter can Part No.  
F103345D1 200 Liter drum Part No.  
F103345T1 1000 Liter tote Part No.  
F103345B1 Bulk