

# Premium performance Aqueous FilmForming Foam concentrate AFFF at 3% for hydrocarbon Fires

### Description

HYDRAL S3 is an aqueous film forming foam concentrates (AFFF) based on fluorosurfactants, hydrocarbon tensides and glycolethers 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 vapor suppressing aqueous film on the surface of the hydrocarbon fuels.

#### Performance

HYDRAL S3 is measured against highest specifications and standards such as Underwriters Laboratories Standard UL 162, latest edition.

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 it's usually higher density.

HYDRAL S3 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

### **Application**

HYDRAL S3 is ideal for sprinkler system application, process plant, pumping stations, Aircraft hangars and tank protection and for any nonairaspirating discharge device like hand line nozzles.

The foam produced by HYDRAL S3 extinguishes hydrocarbon fires by either forceful or soft application.

HYDRAL S3 is compatible with all foamcompatible dry chemical extinguishing powders.

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

# **Approvals**

HYDRAL S3 is listed according to: UL162







# Storage and shelf life

HYDRAL S3 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 S3 Concentrate is about 2025 years.

The factors affecting shelf life and stability for HYDRAL 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 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 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 S3 - 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

A and B
Pale yellow clear liquid
Characteristic, surfactant- alike
1,03 ±0.02 [g/ml]
8,0 ±0.5
5,0 ±2.0 [mm²/s]
≤ 0,05 [%]
3 [% Vol.]
≥ 7,5
≥ 2:30 [min:s]
≥ 4:00 [min:s]
Low, Medium
≤ -10 [°C]
≤ -10 [°C]
-7 to +60 [°C]

#### Ordering information

HYDRAL S3 can be supplied in cans, drums, totes or Bulk (contact us for Bulk delivery).

Part No. F103346C1 25 Liter can Part No. F103346D1 200 Liter drum Part No. F103346T1 1000 Liter tote Part

No. F103346B1 Bulk