HYDRAL

1%, 3%, 6% Fluorosynthetic Aqueous Film Forming Foam (A.F.F.F.)

- ☐ **QUICK FIRE CONTROL**
- ☐ **THE IDEAL FOAM FOR PROMPT INTERVENTIONS ON HYDROCARBONS FIRES**
- ☐ **LOW AND MEDIUM EXPANSION**
- ☐ **VERY EFFECTIVE WITH SPRINKLER SYSTEMS**
- ☐ **EMERGENCY ACTION ON AIRCRASHES**

HYDRAL is a fluorosynthetic film forming foaming liquid commonly known as AFFF (Aqueous Film Forming Foam), available in three concentrations: 1%, 3% and 6%.

3% and 6% are those more widely used. The choice between the two is exclusively related to the systems induction rate and is also very simple for mobile assemblies such as "twin agents units", that use premixed solutions or are equipped with a variable concentration premixer.

HYDRAL is used at 1% proportioning rate on offshore installations and heli-decks due to the limited storage areas.

HYDRAL, as a top representative of standard fluorosynthetic foams, is characterized by the following properties:

- the foam high fluidity and film forming effect give extremely short control times. For these reasons **HYDRAL** has been ever since the most popular foam concentrate used in all Italian and main foreign airports. However, like any other AFFF, the foam is very delicate against pre-burn time, hence not recommended for massive oil tank fires;

- **HYDRAL** is ideal for application on sprinkler systems for loading platforms, process plants, pumping stations, offshore platforms, etc., and for non-air-aspirating hand nozzles.

- the fluorosurfactants prevent the foam from being damaged by the plunge into the burning fuel. The hydrocarbon droplets, emulsified in the foam, are confined and unable to damage the quality of the foam or to start burning. This characteristic is extremely important considering that, especially when using monitors or hand nozzles, foam is never applied gently and has a violent impact on the burning liquid;

- **HYDRAL**, usually applied at low expansion, can also give excellent results at medium expansion when used for blanketing basins, docks, yards, pump rooms, containment trays, water treatment pools, etc..

SHELF LIFE
A minimum shelf life of 5 years can be expected if properly stored in its original containers.

DISPOSAL
Through any ordinary Waste Water Treatment plant.

PACKING
Available, on request, in 25, 200 and 1000 liters plastic packaging and 200 liters steel drums.

HYDRAL
Fluorosynthetic A.F.F.F.

Chemical-physical Properties: 3% - 6% - 1%

	6%	3%	1%
Appearance	Clear yellowish liquid		
Specific gravity at 15°C (gr./cm^3)	1.03 ± 0.02	1.03 ± 0.02	1.03 ± 0.02
Viscosity at 20°C (mm^2/sec)	5 ± 2	6 ± 3	6 ± 3
Viscosity at 0° C (mm^2/sec)	Max 20	Max 25	Max 30
Neutrality: (pH) at 20°C	7.5 ± 1.0	7.5 ± 1.0	7.5 ± 1.0
Pour point (°C)	- 10 to -15	- 10 to -15	- 10 to -15
Sediments (centrifuging) at 20°C	0.2 % vol. max.	0.2 % vol. max.	0.2 % vol. max.
Solubility (sediments)	0.1% max.	0.1% max.	0.1% max.
Corrosion:			
Steel C10 (UNI 2953)	max. 0.5 g/m^2 24 hrs (5 mdd)		
Stainless steel (AISI 304)	max. 0.5 g/m^2 24 hrs (5 mdd)		
Expansion Ratio(ISO-7203 foam nozzle)	8 - 10	8 - 10	7 - 10
ISO 25% drainage time (minutes)	2.5 - 4	2.5 - 4	2.5 - 4

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