Demsa Gold AR-AFFF 3/3 35F
Product data sheet

1. Description

AFFF-AR compound for extinction of hydrocarbon and polar solvent fires. Concentrate with pseudo-plastic behaviour. It contains fluorinated and hydrocarbon surfactants in order to allow the formation of an aqueous film on the surface of most hydrocarbon fuels, reducing vapour leaks and preventing the contact with the oxygen.

2. Use

It may be used with low expansion foam equipment (nozzles, monitors, foam chambers, etc.), non-aspirating devices (water spray nozzles and standard sprinklers) and medium expansion foam branches. On polar solvent fuels use gentle application.

3. Dosage

The dilution rate is 3% in fresh or sea water for extinguishing hydrocarbon fires and polar solvent (alcohols, ketones, ethers, esters, amines, etc) fires. It may be proportioned with standard equipment (in-line inductors, bladder tanks, balanced pressure systems, etc.) and special purpose ones for AFFF agents (e.g. Hydrofoam nozzles).

4. Specifications

The tables below show the typical characteristics of the concentrate and foam solutions.

Concentrate	
Specific gravity @ 20°C	1,02±0,02
pH @ 20°C	7,0 ± 0,5
Viscosity, cone and plate, 375/75 s-1 mPa.s @ 20 ºC	3000 mPa.s
Freezing point, °C	< 0
Lowest temperature for use, ºC	+1,7 (UL)

Foam Solution	
Dilution rate	3%
Surface tension at 20°C, mN/m (Demineralised water)	17,5
Spreading Coefficient	>0

5. Packaging

The product is supplied in 20 or 25 L PE prismatic containers, 200 L PE cylindrical drums and 1.000 L IBC containers.

6. Performance

The foam achieves a very quick knock-down of fires, even with low application rates, and shows an excellent burn-back resistance. The product is UL Listed as AFFF-AR with portable and fixed systems for hydrocarbons with type III application @ 0.10 gal/min·sq.ft and type II for alcohols @ 0.15 gal/min·sq.ft.

7. Storage

The concentrate should be stored at temperatures between +1,7ºC (UL requirement) and +50°C, preferably in the original containers or in stainless steel or epoxy lined tanks. Avoid permanent contact with carbon steel, iron, cooper alloys, aluminium, etc. Do not mix with other foam concentrates without a previous verification of compatibility.

8. Cautions

Foams should not be used in contact with electrical equipment, neither with chemical products that can react with water. It is recommended to avoid the contact of the foam concentrate with the skin. In case of eye splashes, wash with plenty of water. In case of ingestion do not induce vomit, drink water and take medical advice.

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