



TRIDOL S



An AFFF that combines fast flame knockdown with rapid extinguishment

FOR HYDROCARBON FIRES
Low and medium expansion

TRIDOL S is based on oleophobic fluorochemical surfactants which have high foaming properties and which produce a vapour suppressing aqueous film on flammable liquids. Specially formulated to maximise fire knockdown performance, with rapid foam cover and extinction, TRIDOL S is particularly suitable where fast fire attack is essential to save life or prevent major escalation.

APPLICATION

TRIDOL S can be used with standard low expansion foam making equipment and is available in either 6%, 3% or 1% induction grades. The 1% grade has a low minimum use temperature and low temperature 3% and 6% grades are also available for storage and use in cold climates. All these grades are suitable for use with either fresh or sea water. The high foaming characteristics and its film forming ability, make TRIDOL S suitable for use with hand held non aspirating water spray nozzles.

TRIDOL S is very effective as a rapid intervention medium in aviation or other risks where fast fire attack with limited quantities of agent is essential. It is compatible with and can be applied simultaneously with other foam types to the same fire area. The foam is compatible with all types of dry powder and can be used with dry powder/foam twin agent systems.

CONCENTRATION USE

TRIDOL S 6 : 6 %
TRIDOL S 3 : 3 %
TRIDOL S 1 : 1 %

APPLICATION

Solution draining from the foam produces an aqueous film on the surface of hydrocarbon liquid fuels. This contributes to rapid vapour suppression and fire extinction, even when using low application rates and with only a thin layer of foam present. The surface tension characteristics of the foam give it a positive spreading action over the fuel surface which helps to promote foam cover and extinction.

FIXED SYSTEMS/STORAGE

TRIDOL S can be introduced into fixed water spray or sprinkler installations to give greatly improved protection against inflammable liquid risks. This has particular application in stores, warehouses, loading bays or other localised risk areas. The highly concentrated 1% grade reduces storage and equipment costs and has particular application when using a bag tank foam proportioning system.

Indefinite storage life is possible when the concentrate is kept in its original shipping containers, and the foam is also suitable for storage as a pre-mixed solution. Bulk storage tanks should be of stainless steel or of mild steel with protective epoxy paint. Foam properties are not affected by freezing and subsequent thawing of the foam concentrate.

SPECIFICATIONS

TRIDOL S conforms to standards NF EN 1568-1-3 :

1568-3 Class I Burnback Level A
1568-1*

PARTICULAR QUALITIES

- Sea water compatibility
- Frost resistance
- Film forming

ICAO Level B.

GENERAL CHARACTERISTICS

(According to NF EN 1568 standards)

Foam concentrate

	TRIDOL S 6	TRIDOL S 3	TRIDOL S 1
Specific gravity	0.99 kg/l	1.01 kg/l	1.02 kg/l
pH at 20° C	7.2	7.2	7
Viscosity at 20° C	2 mm ² .s	2,5 mm ² .s	5 mm ² .s
Pour point*	≤ -1,9° C	≤ -2,6° C	≤ -8,4° C
Sediment rate	≤ 0.1 %	≤ 0.1 %	≤ 0.1 %
Surface tension	17 mN/m	17 mN/m	16 mN/m
Interfacial tension on cyclohexane	4 mN/m	5 mN/m	3 mN/m

Foam

	TRIDOL S 6	TRIDOL S 3	TRIDOL S 1
Low expansion	7.5	7.5	8
Drainage 25 %	2 min 30	2 min 00	2 min 00
Medium expansion	70	70	40
Drainage 50 %	4 min 00	3 min 00	3 min 00

* internal control tests