

# M51 / M51+



Synthetic foam concentrate  
with double action : Wetting + Foaming

## FOR CLASS A FIRES

M51/M51+ are a blend of hydrocarbon synthetic foaming agents and stabilisers specially formulated to give a strong wetting effect at low use levels.

The extinction of fires of solids (Class A) with M51/M51+ are brought about by the following actions :

- Cooling the heart of the fire to stop distillation of volatile substances.
- Smothering the fire by increasing the percentage of steam in the air and reducing the amount of available oxygen from the air.
- Penetrating deep into the heart of the fire because of the wetting effect.

## UTILISATION

**Wetting effect : M51/M51+**, used as a wetting agent at 1% concentration reduces the water surface tension from 70mN/m to 23mN/m. Water can then easily infiltrate and penetrate through vegetation, wood, shavings, textiles, tyres, straw, silo, dwellings, and so on... and quickly cover a wider area.

**Foaming effect : M51/M51+**, used as a foaming agent with a concentration between 0.3% and 1% isolates vapours as well as giving a wetting effect to reduce burning gas and smoke.

M51/M51+ are particularly adapted for **Fire Brigades** every day interventions: small hydrocarbon fires ; cars, farm equipments, dwellings, buildings fires...

### CONCENTRATION USE

	M51	M51+
Wetting :	0,3 % to 1 %	0,1 % to 1 %
Foaming :	≥ 0,5%	≥ 0,5%

## SPECIFICATIONS

M51+ conforms to EN 1568 1-2-3 Standards version 2008 with the following ratings:

1568-3	Class III at 1% Burnback Level B
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1568-1  
1568-2

M51 conforms to EN 1568 1-2-3 Standards version 2000 with the following ratings:

1568-3	Class III at 3% Burnback Level c
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1568-1  
1568-2



## GENERAL CHARACTERISTICS

(According to NF EN 1568 standards)

### Concentrate

	M51	M51+
Specific gravity	1,02 kg/l	1,03 kg/l
pH at 20° C	7,0	7,0
Viscosity at 20° C	8 à 9 mm <sup>2</sup> .s	7 à 8 mm <sup>2</sup> .s
Pour point	≤ -15° C	≤ -15° C
Sediment rate	≤ 0,1%	≤ 0,1%
Flash point	> 120° C	> 120° C

### De la solution

Surface tension	water + M51	water + M51+
at 1%	23 mN/m	23 mN/m
at 0,6%	23 mN/m	23 mN/m
at 0,3%	25 mN/m	24 mN/m
at 0,1%	-	26 mN/m

### Foam

Concentration	M51		M51+	
	0,5%	1%	0,5%	1%
Low decantation	7,0	8,0	7,5	8,5
Medium decantation	50	80	50	80