

Polartech MA 450 TM

Fatty Acid Monoethanolamide

- Use** : Corrosion inhibitor
Emulsifier
Lubricity enhancer
- Applications** : Synthetic watermix cutting fluids
Semi synthetic watermix cutting fluids
Conventional cutting fluids
Watermix hydraulic fluids
Watermix cleaning fluids
- Advantages** : Super ferrous corrosion inhibition
Stable emulsions in hard waters
Fluid residue formation
Improved concentrate stability
Secondary amine free
- Concept** : An economical ferrous corrosion inhibitor and emulsifier that is secondary amine free. The additive remains fluid at low temperatures and is readily incorporated into watermix fluid formulations.

Typical Product Data

Appearance	:	Dark amber, clear fluid
Specific Gravity @ 20°C	:	1.00
pH @ 1% Concentration	:	9.6
Acid Value mg KOH/gm	:	17
DIN 51360, Part 2, %		
De ionised	:	2.0
200 ppm	:	3.0
DIN spec	:	3.0

This does not represent a complete specification, full sales specification data will be supplied on request by Polartech Quality Assurance Department.

Health and Safety

Polartech MA 450 TM is free from nitrites, phenols, chlorine and PTBBA in accordance with international health and safety trends. For a full Material Safety Data Sheet please contact Polartech Limited.

Polartech MA 450 TM forms part of a comprehensive range of additives, if you require more information on this or any other product please contact Polartech Technical Department. This information is for guidance only. It is recommended that complete testing be carried out on all additives to determine their suitability for use in proprietary formulations.



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Formulatory Guidance

The following formulation would typically form a general purpose, long service life metalworking fluid.

<u>Additive</u>	<u>% weight</u>
Polartech MA 450 TM	15.0
Polartech BA 50 M	10.0
Polartech AK 200	4.0
Naphthenic Mineral Oil	44.0
Water	10.0
Polartech Morecide BOO	3.0
Butyl Diglycol Ether	4.0
Distilled Tall Oil	9.0
Multitect CU	0.5
Antifoam	0.5

This formulation is hypothetical only. The actual proportions will depend on a variety of factors including the type of base oil, coupling agents and fatty acids. All manufactured materials have a specification range and again this will vary the proportions required to produce a stable product. If further guidance is required please contact the Polartech Technical Department.



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