

## Polartech BA 30 D

Boron Ethanolamine Condensation Additive

- USE** : Corrosion Inhibitor
- APPLICATIONS** : Synthetic watermix cutting fluid  
Semi synthetic water mix cutting fluids  
High water based hydraulic fluid  
Synthetic cleaning fluids
- ADVANTAGES** : Extremely low foaming tendency  
Compatible with hard water  
Excellent ferrous corrosion inhibition  
Synergistic effects with other corrosion inhibitors  
Fluid residue formation  
Inherent stability to finished products
- CONCEPT** : A multipurpose corrosion inhibitor specifically developed for ease of incorporation into a wide variety of water based products used in the metalworking industry. BA 30 D can form the basis of fully formulated products for long service life fluids.

### Typical Product Data

<b>Appearance</b>	:	Pale yellow clear fluid
<b>Specific Gravity @ 20°C</b>	:	1.15
<b>Boron Content % wt</b>	:	2.9
<b>pH @ 1% Concentration</b>	:	9.6
<b>Total Alkalinity % wt KOH</b>	:	35
<b>IP 287 Corrosion Test %</b>	:	2.0
<b>DIN 51360, Part 2, %</b>	:	
<b>De-ionised water</b>	:	1.5
<b>200 ppm water</b>	:	2.0
<b>DIN spec water</b>	:	2.5

Whilst 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 BA 30 D 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 BA 30D 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, micro emulsion cutting fluid

Additive	%
Polartech BA 30 D	15.0
Polartech MA 424 G	12.0
Polartech AK 200	4.0
Naphthenic Mineral Oil	45.0
Water	11.0
Polartech Morecide BTO	3.0
Butyl Diglycol Ether	4.0
Distilled Tall Oil	5.0
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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