

# POLYBIO 580 BF



New  
Technology

## SOLUBLE MACHINING OIL METAL WORKING

100%  
Synthetic

### PRESENTATION

**POLYBIO 580 BF** is a versatile micro-emulsion lubricant for grinding and machining operations.

**POLYBIO 580 BF** combines a boron-free micro-organism protection package with a high-performance antifoam package.  
ISO-L-MAH

### PRODUCT BENEFITS

- ✓ Protection of ferrous metals
- ✓ Protection of aluminium
- ✓ Bio stability (boron free)
- ✓ Resistance to foaming

### APPLICATIONS

- **POLYBIO 580 BF** is recommended for all types of grinding (cylindrical, flat, centreless) as well as for machining cast iron, steel and aluminium. It can also be used for machining copper alloys.

### ADVANTAGES

- ❖ Excellent protection of ferrous metals, aluminium alloys and yellow metals
- ❖ High performance micro-emulsion suitable for difficult operations (machining, tapping, drilling...)
- ❖ Low drag-out on parts for reduced consumption and simplified degreasing.
- ❖ Suitable for a wide range of water hardness, including soft water. Maintains its performance as the bath ages.
- ❖ Very good resistance to mechanical foaming and fast deaeration.
- ❖ Keeps tools, equipment and parts clean

### CHARACTERISTICS

	Units	<b>POLYBIO 580 BF</b>
<b>Concentrated state :</b>		
Aspect	/	<b>Liquid, clear</b>
Density at 20°C	<i>g/cm<sup>3</sup></i>	<b>≈ 0.99</b>
Recommended storage temperature	°C	<b>From 5° to 40°C, keep off freezing</b>
Recommended storage time	/	<b>1 year, under original packaging</b>
<b>Diluted at 5% :</b>		
Aspect	/	<b>Clear</b>
pH	/	<b>» [9.0-9.7]</b>
Dilution water hardness	/	<b>[5-60 TH°F] soit [50-600 ppm]</b>
Refractometric coefficient	/	<b>≈ 1.3</b>
Real concentration	/	<b>Reading x coefficient</b>
<b>Behavior :</b>		
Steel Corrosion	<i>DIN 51360</i>	<b>Ok at 3.5%</b>
Copper Compatibility		<b>Punctual</b>
Aluminum Corrosion		<b>OK</b>

*Above details are issued from a production average ; they are not specifications*

### HEALTH AND SAFETY

☞ See MSDS

POLYBIO 580 BF

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*This information shall not involve our liability in case of inappropriate application. Tests must be completed prior to utilisation.*

Product  
Data Sheet