

# POLYBIO 115



High Performance

New Technology

New Formula

## METAL WORKING

### PRESENTATION

**POLYBIO 115** is a soluble cooling lubricant based on highly refined mineral oil, of the biostable micro emulsion type.

**POLYBIO 115** is presented in the form of a concentrate, soluble in water.  
Code ISO-L-MAE

### PRODUCT BENEFITS

- ✓ Versatile "all water" application
- ✓ Excellent compatibility on cast iron & steel

### APPLICATIONS

- ◆ All types of machining by chip removal.
- ◆ Manufacture of rolled & welded tubes.
- ◆ High speed grinding operations.

### ADVANTAGES

- ◆ **Safety:** no chlorine, nitrites, phenol derivatives, heavy metals, silicones  
☞ See safety data sheet, or contact us for more information.
- ◆ **Very pleasant to use:** very low odour of the product in use.
- ◆ **Performance:** **POLYBIO 115** is a universal product, it represents the most suitable technical solution for customers machining all types of metals, cast iron, steel and non-ferrous metals. The excellent lubrication/cooling ratio guarantees minimum friction and very good cooling. The recommended concentration of use varies according to the operations, from 3 to 12% diluted in water.
- ◆ **Prevents corrosion:** very high protection against corrosion of ferrous metals.
- ◆ **Resistance to micro-organisms:** prevents the development of bacteria and fungi (yeast/mould).
- ◆ **Prevents foaming:** high deaeration power to avoid "mechanical" foaming (e.g. grinding or lifting bowls). Very good behaviour with different water qualities: the use of demineralised water is not necessary.
- ◆ **High filterability:** minimum 10 microns, preferably with polyester or polypropylene filters to help de-oil. This excellent filterability allows a cooling lubricant to be kept very clean in service, thus maintaining performance over time. In addition, filter media consumption is limited.
- ◆ **Degreasing of parts:** we recommend the use of an alkaline detergent: **CONDACLEAN LC 1547**

### CHARACTERISTICS

#### In it's pure state:

Appearance /  
Color /  
Specific gravity at 20°C g/cm<sup>3</sup>  
Temperature of storage °C  
Shelf Life

Units

#### **POLYBIO 115**

Liquid  
Clear Blond  
≈ 1.035  
keep away from freezing  
1 year under original packaging

#### Diluted ratio 1:20 (5 %):

Appearance /  
Color (when in use) /  
pH /  
Hardness range /  
Refractometric coefficient /  
Steel corrosion

Opalescent  
White  
≈ [9.1-9.7]  
[10-60 TH°F] or [100-600 ppm]  
≈ 2.4  
3,5% (TH°F 30 - 30 ppm de Cl-)

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

### HEALTH AND SAFETY

- ☞ See MSDS (Material Safety Data Sheets).
- ☞ Biocides in compliance with the European Directive 98/8/EC. **POLYBIO 115** is free of formaldehyde-releasing bactericides.

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Société certifiée ISO 9001 - Fiches de sécurité disponibles sur [www.condat.fr](http://www.condat.fr) / Company certified ISO 9001 - Safety data sheets available on [www.condat.fr](http://www.condat.fr)

Ces informations ne peuvent être considérées comme engageant notre responsabilité en cas d'application défectueuse. Des essais préalables à chaque utilisation doivent être effectués.  
This information shall not involve our liability in case of inappropriate application. Tests must be completed prior to utilisation.

POLYBIO 115

Product  
Data Sheet