

POLYBIO 115

METAL WORKING FLUID WATER SOLUBLE OIL

PRESENTATION

POLYBIO 115 is a biostable micro-emulsion oil designed for conventional machining processes and grinding.

APPLICATIONS

- ◆ All types of machining and grinding operations
- ◆ Manufacturing of welded tubes

PRODUCT BENEFITS

- All water multipurpose
- Good rust protection on cast iron & steel

ADVANTAGES

- ◆ **Safety** : Does not contain phenolics, nitrites, glycol ethers like ethylene glycol, DEA, formaldehyde, heavy metals, silicones ☞ See the Safety Data Sheets, or consult us for more information.
- ◆ **Performance**: *POLYBIO 115* is a multipurpose product that offer an excellent compromise between lubricity and cooling
- ◆ **Rust protection**: Thanks to its inhibitor package, The *POLYBIO 115* offers a high protection against corrosion of ferrous metals (Steel, Cast Iron). *POLYBIO 115* is not suitable for aeronautic aluminium.
- ◆ **Micro-organisms**: Enrich in Biocides, the *POLYBIO 115* prevents micro-organismes growth in the sump
- ◆ **Foaming**: High resistance to foaming :
⇒ No foaming in soft and hard water
⇒ No "mechanical" foaming (cf. equipments and pressure)
- ◆ **Odourless**
- ◆ **Good filtrability** : Minimum 10 microns, good compatibility with the filtration devices normally used. It's properties help to settle the particles.

CARACTERISTICS

	Units	<i>POLYBIO 115</i>
<u>In its pure state:</u>	Aspect	Clear, blond
	Density at 15°C	≈ 1.035
	Storage temperature	Avoid freezing, 5° to 40°C
	Shelf Life	1 year, under original seal
		Opalescent
<u>Diluted to 1:20 (5 %):</u>	Aspect	White
	Color (when in use)	[9,1-9,7]
	pH	2,4
	REFRACTOMETRIC coefficient	<i>Reading x Coefficient</i>
	Actual concentration	
<u>Behavior:</u>	Emulsifying	Easy
	Concentration used (dilution in water)	From 1:20 to 1:10 (5% to 10%)
	Concentration for corrosion protection (Steel)	No corrosion at 5% minimum
	Copper Corrosion	0-0

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

HEALTH AND SAFETY

☞ See MSDS

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