

BLUENERGY POLAR XS CUTTING OIL

High Quality Water-Soluble cutting oil

PRODUCT DATA SHEET

PRODUCT DESCRIPTION

Bluenergy Polar XS cutting oil are high-quality water-soluble cutting oil specifically formulated for cutting and grinding operations of metalworking for both ferrous and non-ferrous components. These oils are formulated to provide outstanding emulsion stability & rust inhibition and works satisfactorily for all types of processes involving fine carbon steels.

FEATURES & BENEFITS

- Outstanding lubricating property.
- Excellent rust and corrosion protection.
- Excellent emulsion stability.
- Excellent cooling of tools and worked components.
- Avoids objectionable odors due to the presence of bactericides in the formulation.

APPLICATION

Bluenergy Polar XS cutting oil suitable for use in all type of cutting and grinding operations for both ferrous & non-ferrous components, with following recommended dilution ratios.

- 3 - 5% for general metal working.
- 2.5 - 4% for grinding.
- 5 - 10% for heavy duty cutting.
- 5 -6% for use as a fire-resistant hydraulic fluid.

TYPICAL CHARACTERISTICS

Bluenergy Polar XS	Test Method	Units	Water soluble cutting oil
colour	ASTM D 1500	---	4.0
appearance	visual	---	Brown & clear
Specific gravity@ 60/60°F	ASTM D 4052	Gm/cc	0.872
Viscosity @ 40 °C	ASTM D 445	cSt	40.6
Pour Point	ASTM D 97	°C	-12
Flash Point (COC)	ASTM D 92	°C	185
Total Base Number	ASTM D 2896	mg KOH/g	11.4
pH Value (1% solution in distilled H2O)	E70	---	9.0max
Emulsion stability, 24 hours	ASTM D 3707	---	---
I. 5% in distilled water			Slight ring – no oil trace
II. 5% in 340 ppm			2 ml cream – no oil trace

These characteristics are typical of current product methods whilst future production will confirm to Bluenergy lubricants specifications, variations in these physical characteristics may occur.

For further information, please contact: info@Bluenergylubes.com