

# Zeal Aqua Cut Oil

## High Quality Soluble Cutting Oil



### Product Data Sheet

#### Product Description

Zeal Aqua Cut Oil is 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

Zeal Aqua Cut Oil is water soluble 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

Zeal Aqua Cut Oil	Test Method	Units	Water Soluble Cutting Oil
Color	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
pH value (1% solution in distilled H2O)	E70	-	9.0 max
Emulsion stability, 24 hour			-
a. 5% in distilled water	ASTM D 3707	-	Slight ring – no oil trace
b. 5% in 340 ppm CaCo3			2 ml cream – no oil trace
Pour Point	ASTM D 97	°C	-12
Flash Point (COC)	ASTM D 92	°C	185
Sulfur content	ASTM D 4951	%wt	0.35

*The above figures are typical of blends with normal production tolerance and do not constitute a specification.*