



SYNTHETIC FLUID

CUTFINE ECO is an economical fully synthetic cutting fluid giving the superior machining & maintenance properties of synthetic technology at a mineral based fluids price. Its inherent stability allows for significant tramp oil contamination with excellent cleanliness properties & corrosion protection.

Easy to mix with water.

- Superior surface finish
- Extended tool life. Tool life typically extended by 2 - 3 times over conventional mineral oil products
- Reduced cuts from swarf giving better operator acceptance
- Eliminates the mineral oil smell associated with conventional mineral oil products
- Eliminates lathe bed corrosion & provides a minimum of one weeks rust protection of mild steel work pieces
- Will clean your machine after a conventional mineral oil product has been used. Cleaner workshop & working environment.
- May be used for copper & copper alloy only work
- Environmentally & **Health & Safety** responsible

Emulsions can be mixed either in proprietary mixing devices or by hand.

The oil has excellent mixing characteristics; but if mixing is done by hand, **The oil must be added to the water, and not the water to the oil.**

- ◆ Greatly superior machining performance
- ◆ Cleaner, less abrasive swarf
- ◆ No odour
- ◆ Excellent corrosion protection
- ◆ Excellent cleanliness
- ◆ Low additive content which leaches copper
- ◆ Contains no mineral oil, boron, chlorinated paraffins, nitrites, phenols

Operation Material Dilution (%)		
	Mild, hardened stainless steels	reaming Aluminum copper copper alloys
Milling, turning, cutting, reaming	5 - 10%	3 - 5%
Grinding	2 - 4%	1.5 - 4%

GRADE	TEST METHOD	UNIT	CUTFINE eco
Based Oil		Synthetic	
Density @ 15 °C	ASTM D 1298	Kg/L	0.896
Flash Point	ASTM D 93	°C	210
Kin Viscosity @ 40 °C	ASTM D 445	cSt	100
Pour Point	ASTM D 97	°C	-12
	Neat		9.4
Ph	5% in water	-	9,1
	1% in water		8.8



Health & Safety

cutfine eco is of moderate toxicity. It is recommended as with all industrial oils & cleaners that repeated or prolonged contact in neat or diluted form is kept to a minimum. At no time should neat (undiluted) be disposed of into sewers. Disposal either neat or diluted into storm water drains or other waterways should always be avoided. If spillage occurs contact your local council authority or refer to the vorta MSDS.

Disclaimer

All reasonable care has been taken to ensure the information contained herein is accurate at the time of printing. However vorta accepts no tortuous or contractual liability for any loss or damages suffered as a consequence of the reliance on the information & advice contained herein.