

EKO CUTTING FLUID

Emulsifiable metalworking oil

Description

EKO CUTTING FLUID is a top quality, mineral oil-based lubricant, suitable for severe metal cutting and machining applications. Mixed with water, EKO CUTTING FLUID makes up a stable emulsion.

Recommended concentrations:

General machining: 3-5%

Grinding: 2-2.5%

Heavy machining: 8-10%

Applications

Suitable for iron, aluminum and copper cutting and machining, alloys included.

Instructions for use

Prior to use, EKO CUTTING FLUID must be mixed with water (preferably demineralised) at the proper ratio depending on its intended use.

Advantages

- Excellent resistance to oxidation and thermal breakdown.
- When mixed with water, it produces a long life emulsion thus preventing oil/water separation, which is likely to occur when using poor quality water or if the emulsion is contaminated with old or waste oil.
- High lubricity, minimising machine tool wear.
- Improved resistance to bacterial degradation.

Typical Characteristics

Properties	Methods	Units	EKO CUTTING FLUID
Appearance (Emulsion 5%)	Visual Inspection		Milky
Emulsion Stability 5%			Stable
Density, 25°C	ASTM D1298	g/ml	0.885
Kinematic Viscosity, 40°C	ASTM D445	cSt	37
Oil Content		%	88
Corrosion Resistance	ASTM D4627		2.5% Breakpoint
Bacterial Resistance	ASTM D3946		10000/ml, max.

Health and Safety

Protect the environment while disposing of used product. Used lubricants should be collected at specific points to ensure they do not pollute the environment. Do not mix with solvents, brake fluids, antifreeze and water, to allow for proper handling.

30 January 2025

This data sheet provides basic information on the product as at the date of drafting. For further information regarding applications, please contact EKO ABEE Technical Support, tel. +30 210 5509 511.

Advice on safe handling is provided in the Safety Data Sheet.