

Product Data Sheet

HIPRO COOWELL EP CUTTING OIL

Enhanced Biocides Heavy Duty EP Water Soluble Cutting Coolant

PRODUCT DESCRIPTION

COOWELL EP is an enhanced biocides, high lubricity and EP containing high performance metalworking fluid. It is manufactured from carefully selected **paraffinic base oils**, lubricity agents, EP, corrosion inhibitors, emulsifiers and biocide. It is formulated with the high levels of extreme pressure and lubricity additives to give excellent machining performance in most arduous machining operation. It is truly multipurpose whilst remaining cost effective. It is also for application in machine shop cutting all type of **ferrous** and **non ferrous metal**. It has exceptional emulsion stability and anti-corrosion properties. Inhibited with biocides to reduce bacterial growth under normal condition and its low foaming makes **COOWELL EP** in water gives a stable milky white emulsion at all temperature. It is also frequently used as a foaming fluid in certain industries.

APPLICATION

COOWELL EP is recommended for all heavy duty applications on steels, yellow metals and other non-ferrous materials. It is formulated with high lubricity additives which allow the product to be used for tapping operations on steel and for general machining of aluminum alloys. **COOWELL EP** is free from nitrites, phenols and sulphurised activities.

Depending on the severity of the operation, the following general guidelines may be used:

Machining Operation	Recommended Dilution
Grinding (Heavy Stock removal)	5%– 10%
Turning , Drilling, Sawing, Milling	5%– 10%
Reaming, Deep Hole Boring	5%– 10%

The correct method of mixing is add the recommended amount of concentrate to clean water, stir thoroughly, and adds the mixture to the machine coolant system.

CAUTION: Continuous contact with used oil has caused skin cancer in lab animals. Avoid prolonged skin contact. Avoid eye contact. Wash skin thoroughly with soap and water after handling. Flush eyes with water for 15 minutes in case of contact. If swallowed, do not induce vomiting. Contact a physician immediately. **KEEP OUT OF REACH OF CHILDREN.**

SPECIAL PROPERTIES

- Outstanding machining performance on non-ferrous and ferrous metals, including stainless steels.
- High resistance to bacterial degradation / stable in a wide range of diluents water qualities.
- No sticky deposits on machine tool slides and fixtures.
- Resistant to bacterial and tramp oil degradation / high emulsion stability.
- Emulsion provides excellent corrosion protection to both the machine tool surface and components being machines.
- Having selected an additive which is suitable for non-ferrous metals.
- Working solutions have an extremely low odor of toxicity.

TYPICAL SPECIFICATION

Type	Mineral Oil
Density, g/ml	1.01
Color, ASTM	3.50
pH of 3% dilution	8.90
Corrosion test IP 287	0 at 1.30
Emulsion stability IP 263	No oil at 1.30

** The above specifications are typical of current production, variation in these characteristics may occur, but will not affect the product performance.*

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