



Advanced Lubricants Technology

PRODUCT INFORMATION

PERENNIAL MINCOOL MP - S (ENHANCED BIOCIDES WATER SOLUBLE CUTTING COOLANT)

DESCRIPTION

PERENNIAL MINCOOL MP - S general purpose water soluble cutting fluids are manufactured from carefully selected paraffinic base oils, lubricity agents, corrosion inhibitors, emulsifiers and biocide. It is also specially formulated for application in machine shop cutting all type of **ferrous** and **non ferrous** metals. It has exceptional emulsion stability and anti-corrosion properties. Inhibited with biocides to reduce bacterial growth under normal condition and its low foaming makes PERENNIAL MINCOOL MP - S ideally suited as an economical long life coolant in central circulating systems. PERENNIAL MINCOOL MP - S in water gives a stable milky white emulsion at all temperature. MINCOOL MP-S is also frequently used as a forming fluid in certain industries.

APPLICATIONS

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

Machining Operation :	Recommended Dilution
Milling, Turning and Drilling	1:10 to 1:15
Rough Cutting	1:10 to 1:20
Grinding	1:20 to 1:30

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

PERFORMANCE

- PERENNIAL MINCOOL MP - S is free from phenol, nitrite, chlorine, cresol and other harmful additives
- Low odor
- High emulsion stability, high microbiological resistance
- Emulsion provides excellent corrosion protection to both the machine tool surface and components being machines
- Having free of chlorine but selected additives which is suitable for **nonferrous** metals
- Working solutions have an extremely low odor of toxicity

TECHNICAL DATA

Type	: Mineral oil
Density, g/ml	: 0.9100
Color, ASTM	: 3.5
pH of 5% dilution	: 8.90
Corrosion test IP 287	: 0 at 1:20
Emulsion stability IP 263	: No oil at 1:25

The above details is typical and does not constitute a contract in terms of properties