

POWEROIL MET CUT PREMIUM GENERAL PURPOSE SOLUBLE CUTTING OIL

POWEROIL MET CUT PREMIUM is a high quality conventional milky emulsion type special purpose soluble Cutting oil manufactured from specially selected base stocks with superior performance additive pack containing carefully chosen emulsifier, which offers excellent stable emulsion and wettability and hard water stability. Select rust inhibitors in the product ensures effective metal protection. Further, new generation biocides added in the oil provide long emulsion life.

MEETS THE FOLLOWING PERFORMANCE STANDARDS:

BIS:1115- 1986* (Reaffirmed 2013)

CHARACTERISTICS	POWEROIL MET CUT PREMIUM
Appearance	Amber Clear Liquid
Specific Gravity @29.5°C.	0.890
Kinematic Viscosity @ 40°C, cSt.	20
Flash point, COC, °C, min	150
PH (5% Emulsion D/W)	9.2
Emulsion Stability Test (24 Hrs) at 5:1 & 20:1 ratio in 400 ppm Hard water (as CaCO ₃)	Stable Emulsion
Thermal Stability Test (at 0°C & 50°C)	Pass
Cast iron corrosion test (IP-125)	Pass

The above properties are typical values and do not constitute specification of the product

*** Exceeds BIS: 1115 – 1986 specs w.r.t. hard water stability.**

APPLICATION:

- Recommended for wide range of metal working operations on both ferrous and non-ferrous metals.
- Superior emulsifier package ensures good wettability and improved cooling and flushing ability.
- Recommended for applications like turning, milling, drilling and tapping, etc.
- Can be effectively used even with higher hardness of water.
- Suitable for use as pickling oil during cold rolling of steel.
- Can be recommended as a tempering /blackening oil for nuts and bolts after Quenching

PERFORMANCE BENEFITS:

- Excellent cooling and lubricating characteristics
- Displays high emulsion stability even in hard water
- Better high temperature stability - offers better die life and lower oil consumption
- Economical to use due to its longer sump life
- Offers better rust protection of machined components