



MASTER SOLUTION FOR VEHICLE AND EQUIPMENT LUBRICATION

## PRODUCT DATA SHEET

### ATMA KOOL CUT OILS Soluble cutting oil

#### Description:

ATMA KOOL CUT is soluble cutting oil blended from highly refined mineral base oil with emulsifier, antirust, anti-corrosion inhibitors. It is imparted with a biocide to prevent bacterial growth in emulsion, when mixed water. It forms a stable milky emulsion of the oil in water type. For stable emulsion oil should always be added to water not vice-versa with continuous stirring.

#### Specification:

Meets the physiochemical characteristics of IS: 1115 – 1986 (Reaffirmed 1996) (Specification for General Purpose Cutting oil, Soluble).

PACKS AVAILABLE: - Available in packs of Bulk & 210,50 & 20 Ltr.

#### Application:

ATMA KOOL CUT is recommended for general cutting operation, where cooling is more important than lubrication on ferrous and non-ferrous metals. It is normally used in concentrations of 5 – 10 % depending upon severity of cutting. More dilute emulsions are also recommended.

Also recommended for prevention of rust in hydraulic systems using water as hydraulic medium.

#### Performance benefits:

- Excellent emulsion stability
- Excellent emulsion spontaneity
- Excellent corrosion protection
- Good hard water stability

## Physiochemical characteristics:

Parameter	Test method (IS: 1448)	IS:1115-1986 (reaffirmed 1996)	Atma Kool Cut
1. Appearance	Visual	Clear, homogeneous and free from foreign matter, sediment and visible impurities	
2. Flash Point (COC) <sup>o</sup> C, Min	P: 69	150	150
3. Water % by mass, Max	P: 40	10.0	10.0
4. Ash, Percent by mass, Max	P: 4	3.5	3.5
5. Copper corrosion @ 100 °C for 3 Hours	P: 15	Not worse than 1	Not worse than 1
6. Emulsion test 5:1 & 20: 1 ratio in water of 400 ppm hardness, Max	P: 98	0.1 ml Oil & 0.2 ml Cream	0.1 ml Oil & 0.2 ml Cream
7. Cast iron corrosion test 20: 1 ratio Emulsion with 400 ppm hard water , Max	Appendix A of IS: 1115 – 1986	0 / 1 – 1	0 / 1 – 1
8. Frothing test 5: 1 & 20: 1 ratio in 200 ppm hardness,	P: 99	No froth After 15 Minutes	No froth After 15 Minutes
9. Thermal stability test	P : 100	Passes	Passes
10. Bactericides test	--	--	Passes

### Note :

1. The above data is indicative values only. Minor variations, which do not affect product performance or quality, may be expected in manufacture.
2. Specific requirements shall be custom made on request