

CUTTING OIL

Cutting Oil is soluble type cutting oil containing a wide variety of additive components selected for specific purpose and blended in controlled proportions with suitable biocide component. National Cutting Oil is general purpose soluble oil formulated for extra lubricity. It exhibits excellent corrosion resistance. Low foaming tendencies and contain a bactericide to combat a wide spectrum of micro-organisms commonly present in sump & reservoir.

BENEFITS

- Extra lubricity minimizes friction between the tool & work piece to facilitate machining at increased production rate.
- Gives improved precision & better surface finish.
- Improved cooling due to higher lubricity properties of the emulsion transfer heat from the cutting zone which ensure faster machining.
- Excellent Corrosion inhibition properties.
- Increased tool life.
- The balanced combination of base oil, emulsifiers and coupling agents produces stable, long lasting emulsions.
- Prevents against bacteria and fungus growth.

APPLICATIONS

Cutting Oil is general-purpose, soluble type cutting oil for use with water of normal hardness. A dilution of 4% to 8% is suitable for the majority of application. It is advised to start with 4% and adjust as necessary. The emulsion is prepared by adding oil to water and not vice versa. It is non-staining and can be used on both ferrous and non-ferrous metals in a wide variety of machining operations including grinding, milling, turning and drilling. Cutting Oil is expected to provide a longer life and better emulsion stability.

PRODUCT CHARACTERISTICS

PROPERTIES	UNITS	VALUE	TEST METHOD
Specific Gravity @ 15 °C	-	0.895	ASTM D-4052
Viscosity @ 40 °C	mm ² /s	37.0	ASTM D-445
Viscosity @ 100 °C	mm ² /s	5.85	ASTM D-445
Flash Point, COC	°C	136	ASTM D-92
Emulsion Test	-	Pass	-
Product Code	-	539042	-