



ATLANTIC NEAT & SOLUBLE CUTTING FLUIDS

DESCRIPTION

EMIRATES 1 SOLUBLE CUTTING FLUID is an effective, multipurpose soluble oil for cutting and machining operations. **EMIRATES 1 SOLUBLE CUTTING FLUID** is a multi-functional, emulsifiable cutting fluid. When mixed with water, this fluid forms a very stable, milky white emulsion, offering excellent cooling ability and the necessary lubricity and extreme pressure characteristics for effective machining operations. This fluid resists foaming, is inhibited with an effective anti-microbial biocide agent, and offers high reserve alkalinity for long service life. Such a fluid can satisfy up to 80% of all general machining requirements.

EMIRATES 1 NEAT CUTTING FLUID are high performance mineral-oil-type, non-staining cutting oils. They contain a balanced selection of additives that maximizes performance. They meet the anti-weld and lubricity requirements of moderate machining operations on most alloys. These cutting oils do not stain either ferrous or nonferrous metals during cutting operations and, likewise, will not stain after machining.

APPLICATIONS

EMIRATES 1 Soluble Cutting Fluid is a multi-purpose machining fluid designed for use in metal working applications where cooling and rust protection are of prime importance. When mixed to the correct ratios, typical applications include cutting, sawing, turning, boring, milling, and grinding. Typical application ratios for EMIRATES 1 Soluble Cutting Oil include (but are not limited to): **40:1** – grinding, **20:1** – quenching induction heated parts and as a roll coolant, **20:1** – sawing and light cutting operations, **15:1** – general purpose cutting and drilling, **10:1** – rust preventative in water based hydraulic systems.

EMIRATES 1 Neat Cutting Fluid is a high performance cutting oil for operations on light and medium alloyed steels, aluminum and yellow metals **EMIRATES 1 Neat Cutting Fluid** has multipurpose oil characteristics from both hydraulic oil and gear oil. It has a good de-aeration power, do not foam much and is not aggressive for the paints on machine tools.

PRODUCT FEATURES & BENEFITS

- Excellent machining capability
- Multipurpose applications
- Less misting tendency
- Stable emulsion
- Antiwear performance
- Good tool life

TYPICAL TECHNICAL PROPERTIES

Cutting Fluids	Soluble	Neat
Density at 15°C, g/ml, ASTM D4052	0.94	0.88
Kinematic Viscosity at 40°C, mm ² /s, ASTM D445	38	32
Emulsion stability	Pass	-
Flash point in °C (ASTM D 93)	190	180
Appearance	Dark Amber	yellow
Copper Strip Corrosion, ASTM D 130, 3 hrs @ 100°C, max	1A	1A

*C & B: Clear & Bright

Note: The information on this Product Data Sheet is believed to be accurate and is typical of current production. Specifications are subject to change without notice. For additional queries, please contact Emirates 1 Technical Service Department.

Health and Safety: Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS). Safety Data Sheets available on request.

Available in: Cartons: 12x 1 L, 24x1 L, 4x5L 6 x 4 L, 6 x 5 L, Pails: 20 L & 25 L, Drums: 200 L, 208 L.