

# Technical Data Sheet (TDS) - Cutting Oil

**Product Name:** Cutting Oil (General Purpose)

**Supplier:** Basekim **Origin:** UAE / Turkey

### **Product Description**

Basekim Cutting Oil is a premium-grade metalworking fluid designed to provide excellent cooling, lubrication, and corrosion protection during machining operations. Formulated with high-quality base oils and EP additives, it extends tool life, improves surface finish, and reduces heat generation.

### **Typical Applications**

- Drilling
- Milling
- Turning
- Grinding
- Broaching
- CNC machining operations

# **Technical Specifications**

Property	Typical Valu <mark>e</mark>	Test Method
Appearance	Amber, clear liquid	Visual
Odor	Mild petroleu <mark>m / su</mark> lfur	Sensory
Density @ 15°C (kg/L)	0.870 – 0.89 <mark>0</mark>	ASTM D4052
Viscosity @ 40°C (cSt)	32 – 100	ASTM D445
Flash Point (°C)	≥180	ASTM D92
Pour Point (°C)	-6	A <mark>STM D</mark> 97
pH (emulsion, 5%)	8.5 – 9.5	ASTM E70
Copper Corrosion (3hr, 100°C)	1a	ASTM D130
Sulfur Content (% wt)	0.5 – 1.5	ASTM D4294





#### **Performance Benefits**

- Superior cooling and lubricity to reduce heat and wear
- Corrosion and rust protection for tools and machines
- Stable emulsion formation in soluble oils
- Excellent surface finish and reduced tool replacement costs
- Low foaming, even at high-speed machining

# **Packaging Options**

• **Steel Drums:** 200 Liters (Net weight: ~170 kg)

• **IBC Tanks:** 1000 Liters

• Bulk Tanker: Custom volume

# Storage & Handling

- Store between 5°C and 40°C.
- Keep containers sealed and clean.
- Avoid contamination with water and dust.
- Use proper PPE during transfer and mixing.

### Recommended Dilution Ratios (For Soluble Cutting Oils)

Application Dilution Ratio

Heavy Machining 1:10 (oil:water)

General Purpose 1:15 Light Machining 1:20

### Health and Safety

- Avoid prolonged skin contact.
- Ensure adequate ventilation.
- Refer to the MSDS for detailed safety information.

