

## SCHEINDÖL CUTTING OIL

### Product Description

**SCHEINDÖL Cutting Oil** is a high-performance, water-insoluble metalworking fluid engineered for precision machining of ferrous and non-ferrous metals. It provides excellent cooling and lubrication, reducing wear and extending tool life while delivering superior surface finishes. The chlorine-free formulation ensures environmental safety without compromising performance.

### Product Features & Benefits

- Superior lubrication reduces friction and heat buildup.
- Long tool life with excellent edge retention.
- Outstanding surface finish with minimal residues.
- High resistance to oxidation and thermal degradation.
- Low maintenance and easy to mix for trouble-free operation.
- Low foaming properties ensure stability in high-pressure conditions.

### Application

- Suitable for various machining operations including broaching, thread cutting, drilling, milling, reaming, sawing, and grinding.
- Designed for use on aluminum, non-ferrous metals, steel, stainless steel, and high-alloy steels.
- Ideal for both individual machine tools and centralized systems.

### Areas of Application

- **Automotive Industry:** Machining operations such as thread cutting, broaching, drilling, and sawing.
- **Industrial Manufacturing:** Used in gearwheel milling, lathe machining, turret lathes, and other general machining operations.
- **Metal Cutting Applications:** Suitable for high-alloy steels, stainless steel, non-ferrous metals, and aluminum.

### Typical Properties by Viscosity Grade

Property	Method	UNIT	VG 46	VG 68
Kinematic Viscosity @ 40°C	ASTM D-445	cSt	32	46
Viscosity Index	ASTM D2270	-	100	98
Pour Point	ASTM D97	°C	-22	-20
Flash Point	ASTM D92	°C	210	230
Neutralization Number	DIN 51558 Part 1	mg KOH/g	1.3	1.2
Corrosion Test	IP-125	-	0/1-1	0/1-1
Rust Prevention (Emulsion 20:1)	IP-287	-	Pass	Pass
pH of Emulsion (20:1)	ASTM D1287	-	9.3	9.2
Biodegradability	DIN EN 7	g/100g	0.16	0.15

