

## Petromar Metalworking Fluids Precision Lubrication for Metalworking and Cutting - PDS

PETROMAR NEAT CUTTING OIL is a high-performance, active-type neat cutting oil specifically engineered to improve the surface finish and extend the life of cutting tools. Blended with highly refined oils and specialized oiliness additives, it delivers excellent surface adherence, making it suitable for a wide range of machining operations. The oil also possesses extreme pressure (EP) properties, which help it perform under the most demanding conditions, offering reliable protection for both tools and workpieces.

### Key Benefits & Applications:

PETROMAR NEAT CUTTING OIL is ideal for less severe machining operations on ferrous metals, particularly those involving automatic lathes, screw cutting machines, and CNC machines. It is especially effective for cutting operations on high-tensile stainless steels and Ni-Cr alloys, including gear cutting, drilling, reaming, and thread cutting.

- Exceptional heat removal and lubrication, improving surface finish and overall product quality
- Superior emulsion stability & Robust protection against rust, corrosion, and bacterial growth
- Reliable tool edge protection across a wide range of temperatures
- Facilitates machining of tough, ductile steels in demanding conditions
- Prevents chip-tool welding, ensuring smooth operations & Reduces oil drag-out losses, minimizing waste and increasing efficiency

### Typical Properties:

TEST PARAMETERS	TEST METHODS	UNITS	CUTTING OIL
Appearance	Visual	NONE	Bright & Clear
Density @ 15°C	ASTM D 4052-11	g/ml	0.878
pH	ASTM D 1287	N/A	9.5
Kinematic Viscosity @ 40 °C	ASTM D 445	cSt	32
Kinematic Viscosity @ 100 °C	ASTM D 445	cSt	5.6
Viscosity Index	ASTM D 2270	NONE	114
Pour Point	ASTM D 97	°C	-15
Flash Point	ASTM D 92	°C	220

*These properties are typical of current production. Performance-neutral variations may occur.*

**Packaging Options:** 1L, 4L, 5L, and 20L containers to large 208L drums and 1000L IBCs.

**Health and Safety:** Find health and safety details in the Safety Data Sheet (MSDS) on our website.

**Storage:** Store products below 140°F (60°C), away from sparks, flames, and out of children's reach.

**Disposal:** Protect the environment by properly disposing of used motor oil and lubricants. Contact us for assistance