



PETROMIN Super Solcut Oil is a high-performance, water-soluble cutting fluid designed for both general and modern machining applications. It forms a stable, milky emulsion that provides excellent cooling, lubrication, and corrosion protection for both ferrous and non-ferrous metals. Ideal for a wide range of operations—including turning, drilling, milling, and grinding—this cutting fluid ensures consistent performance across diverse machining environments. It enhances productivity while offering an enhanced solution for various machining processes.

Benefits

- Enhanced lubricity reduces friction between the tool and workpiece, enabling higher production rates.
- Improved surface finish and excellent corrosion protection help extend tool life and reduce wear.
- Ensures stable, long-lasting emulsions against high water hardness.
- Enhanced bacterial and fungal resistance protects machines and components from rusting and corrosion.
- Optimized pH control maintains consistent performance.

Applications

- Ideal for a variety of general-purpose machining operations, including turning, milling, drilling, and tapping.
- Performs efficiently on both CNC and VMC machines.
- Recommended for use in both centralized systems and individual machine coolant sumps.
- Best emulsion stability and sump life achieved with use of soft water for emulsion making and top-up.

Recommended Concentrations

Operation	Mild steel	Alloy Steel	Aluminum Alloys
Milling, & Drilling	5-6%	5-6%	5-6%
Reaming Tapping & Screwing	6-8%	8-10%	6-8%
Grinding	3-4%	3-4%	3-4%

Coolant Management System – User Guidelines

- To maximize performance, tool life, and emulsion stability, proper coolant management is essential.
- Follow the steps below for system cleaning, coolant preparation, and ongoing maintenance.

System Cleaning – Machine preparation

- 1) Add 2% system cleaner to the existing cutting fluid and circulate for 48 hours.
- 2) Remove all existing fluids, then flush the system with water or a highly diluted mix of cutting fluid solution.
- 3) Refill the system to the recommended level with the correct concentration of fluid.

Product Characteristics

Properties	Test Method	Unit	Solcut Oil
Density @ 15 °C	ASTM D4052	kg/L	0.8990
Kinematic Viscosity @ 40 °C	ASTM D445	cSt	52.7
pH of 5% Emulsion	Internal	°C	9.4
Emulsion Stability		-	Pass
Product Code			539700





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- * Information, test methods, figures are typical and conform to specification; minor variation may occur.
- * Refer Owner's Manual for the manufacturer's recommended performance level, viscosity grade and builder approval requirements.
- * Please refer to the product Safety Data Sheet (SDS) for health, safety, and handling information.

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