



AVYOL METALWORKING FLUIDS

(Cutting, Grinding & Forming Applications)

Avyol Metalworking Fluids are formulated to deliver superior cooling, lubrication, and protection during machining and forming operations. Available in soluble oils, semi-synthetic, and synthetic grades, they help reduce tool wear, improve surface finish, and extend equipment life. Designed for modern CNC machines as well as conventional workshops, Avyol Metalworking Fluids ensure smooth operations across cutting, grinding, drilling, and forming applications.

Performance Highlights

- Excellent cooling and lubricity to reduce tool wear.
- Superior surface finish and dimensional accuracy.
- Effective rust and corrosion protection for both workpiece and machine.
- Low foaming tendency, ensuring stable performance in high-speed systems.
- Compatible with hard water and resistant to bacterial growth (biocide-treated grades available).
- Available in soluble, semi-synthetic, and synthetic formulations.



Typical Specifications (Metalworking Fluids – Soluble Oil type as example)

Property	Value / Limit	Test Standard
Appearance (Concentrate)	Clear to amber fluid	Visual
Emulsion Stability (5% in water)	Stable, no separation	ASTM D3707
pH (5% solution)	8.5 – 9.2	ASTM E70
Corrosion Test (Steel strip)	No rust	ASTM D4627
Foaming Tendency	Low	ASTM D892
Bacterial Resistance	Pass (biocide treated)	Internal QC

