

## Cutting Oils

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**AMALIE Cutting Oils** are premium cutting oils formulated with high quality mineral oils and additives. These oils are designed to aid the cutting, grinding, or forming of metal and to provide good finish and work piece quality while extending the life of the machine tools. Both products identified below are EP and anti-wear formulated without chlorine containing chemistry. **AMALIE Medium Cutting Oil 304** is high quality general-purpose oil formulated to provide extreme pressure (EP) properties and friction modification for a variety of metals. The inactive sulfurized fatty additive package is not corrosive to aluminum or yellow metals such as copper or bronze, and is thus non-staining to the metal being worked. **AMALIE Heavy Cutting Oil 310** is designed for heavy duty, extreme pressure conditions where an active sulfur agent is desired. This formula also contains a finishing agent and is primarily formulated for ferrous metals. AMALIE has the capability of formulating many types of Metalworking Fluids, both straight and soluble. Please discuss your needs with a Company representative.

### Benefits

- Non-Staining - Will Not Discolor Finishes
- Increases Tool Life
- Improve Surface Finish
- Protect Machined Surfaces from Corrosion

### Typical Physical and Chemical Properties

AMALIE Cutting Oil	Medium 304	Heavy 310
ISO Viscosity Grade	32	46
API Gravity	29.5	28.0
Flash Point, °C	190	190
<b>Kinematic Viscosity</b>		
@ 100°C, cSt	5.1	6.5
@ 40°C, cSt	29.0	46.0
Viscosity Index	100	100
Pour Point, °C	-12	-12

### Health and Safety

Safety Data Sheets (SDS) are available online at AMALIE.com or from your AMALIE Representative.