

# VULSOL 5000 S



METALWORKING



**TOTAL**

**Heavy-Duty, Synthetic Metalworking Fluid for Ferrous and Non-Ferrous Metals.**

## APPLICATIONS

- **VULSOL 5000 S** represents the most up-to-date technology in the development of a truly synthetic metalworking fluid. Formulated with specially selected biodegradable components, it produces a clear solution in all types of makeup water and contains no nitrites, phenols, or heavy metals.
- **VULSOL 5000 S** is recommended for the heavy duty machining and grinding of ferrous and non-ferrous alloy metals. It contains a strong rust inhibitor package, anti-weld agents, lubricity additives, and extreme pressure additives that provide outstanding boundary lubrication during the machining process.
- **VULSOL 5000 S** is a low foaming fluid and can be used in high speed machining operations as well as in notoriously high foaming grinding operations.

## ADVANTAGES

- Resistant to microbiological growth.
- Excellent extreme pressure protection.
- Increases tool life, prevents ridging, promotes good surface finish.
- Excellent lubricity properties--Increases the tool life on a large scale of cutting parameters maintaining an additive layer on the chip / workpiece / tool surface.
- Contains no sulfur, chlorine, nitrites, phenols, or heavy metals.
- Protects workpiece and tools against corrosion.
- Long sump life.
- Low foaming fluid.
- Non-staining.
- Permits operator surveillance of the workpiece at all times.
- Light viscosity means good flushing ability.

TYPICAL CHARACTERISTICS	VULSOL 5000 S
Appearance	Clear Liquid
Specific Gravity @ 60°F/60°F	1.05
Density @ 60°F, lbs./gal.	8.75
Flash Point, COC, °F	None
Chlorine, %wt.	None
Sulfur, %wt.	None
pH @ 10%	9.0
Refractive Index Factor	1.55

Standard dilution of water to oil is 20:1. May be mixed satisfactorily from 10:1 to 25:1 depending on the type and severity of the operation. For grinding operations, 25 to 30 parts water to 1 part **VULSOL 5000 S** is recommended. The concentration should be adjusted as necessary to maximize performance.

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