

# VULSOL 5000



METALWORKING



Moderate-Duty, Synthetic Metalworking Fluid for Ferrous Metals.

## APPLICATIONS

- **VULSOL 5000** represents the most up-to-date technology in the development of a truly synthetic metalworking fluid. Formulated with specially selected components, it has the outstanding feature of being non-irritating to operators. This has been done without bactericides, fungicides, secondary amines, or amines of questionable safety.
- **VULSOL 5000** is recommended for the general machining and grinding of ferrous metals and ferrous alloys, and glass grinding applications. 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.

## ADVANTAGES

- Resistant to microbiological growth.
- 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 / work piece / tool surface.
- Contains no sulfur, chlorine, nitrites, phenols, or heavy metals.
- Protects work piece and tools against corrosion.
- Long sump life.
- Low foaming fluid.
- Permits operator surveillance of the work piece at all times.
- Light viscosity means good flushing ability.

| TYPICAL CHARACTERISTICS      | VULSOL 5000                   |
|------------------------------|-------------------------------|
|                              |                               |
| Appearance                   | Clear to Slightly Hazy Liquid |
| Specific Gravity @ 60°F/60°F | 1.014                         |
| Density @ 60°F, lbs./gal.    | 8.44                          |
| Flash Point, COC, °F         | None                          |
| Chlorine, %wt.               | None                          |
| Sulfur, %wt.                 | None                          |
| pH @ 5%                      | 9.7                           |
| Refractive Index @ 5%        | 1.3                           |
| Refractive Index @ 10%       | 2.8                           |
| Refractive Index Factor      | 3.9                           |

Standard dilution of water to oil is 20:1. May be mixed satisfactorily from 6:1 to 25:1 depending on the type and severity of the operation. For grinding operations, 20 parts water to 1 part **VULSOL 5000** is recommended. The concentration should be adjusted as necessary to maximize performance.

## TOTAL Specialties USA, Inc.

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VULSOL

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This lubricant must be applied as recommended and used for the application for which it was designed. TOTAL Specialties USA, Inc. will have no responsibility for any injury to persons or property resulting from misuse or misapplication of the lubricant. A safety data sheet conforming to the OSHA Hazard Communication Standard 29 CFR Section 1910.1200 can be downloaded at [www.totalspecialties.com](http://www.totalspecialties.com). Copyright 2016 All rights reserved.