

VULSOL 3000 S

Synthetic Metalworking Fluid

(Formerly Elfcool S3000)

DESCRIPTION

VULSOL 3000 S represents the most up-to-date technology in the development of a full synthetic metalworking fluid. It is recommended for machining and grinding of steel and steel alloys.

VULSOL 3000 S synthetic coolant offers the following benefits:

- Produces a clear solution in all types of makeup water
- Provides long sump life
- Resistant to biological growth
- Has no mineral oil
- Contains no nitrites, phenols, or heavy metals
- Formulated with a strong rust inhibitor package
- Provides good lubricity and extreme pressure protection
- Prevents welding of chips to the cutting tool
- Rapid heat dispersal helps provide long tool life and parts size control
- Low foaming fluid can be used in high speed machining and grinding operations
- Provides excellent visibility of the work piece
- Easier to treat for disposal since it contains no petroleum products

APPLICATION

VULSOL 3000 S is recommended for the following operations: milling, turning, drilling, boring, and threading. **VULSOL 3000 S** also performs well on OD and ID grinding operations including centerless and surface grinding.

MIXING RATIOS

The standard dilution ratio of water to concentrate is 20:1. **VULSOL 3000 S** may be mixed satisfactorily from 10:1 to 25:1, depending upon the type and severity of the operation. For grinding operations, 25 to 30 parts water to 1 part **VULSOL 3000 S** is recommended. The concentration should be adjusted as necessary to maximize performance.

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TOTAL Lubricants USA, Inc.

ISO: 9001:2000 certified

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VULSOL 3000 S

TYPICAL SPECIFICATIONS

Appearance	Clear Liquid
Odor	Mild Synthetic Type
Specific Gravity @ 60°/60°F	1.05
Density @ 60°F, #/gallon	8.75
Sulfur, % wt.	Nil
Chlorine, % wt.	Nil
pH @ 1:9 Solution	9.0
Refractive Index, ° BRIX	
5%	1.7
10%	3.4
15%	5.3

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