

# **SPIRIT 500 S**

## **SEMI – SYNTHETIC METALWORKING FLUID**

(Formerly Elfcool SS 500)

### **DESCRIPTION**

**SPIRIT 500 S** represents a good general-purpose semi-synthetic metalworking fluid designed for ferrous and non-ferrous metal applications.

**SPIRIT 500 S** offers the following benefits:

- Easily forms a translucent micro-emulsion in all types of water
- Long coolant sump life
- Resistance to microbiological growth
- Contains no nitrites, phenols or di-ethanolamine
- EP and anti-wear agents prevent welding of chips to cutting tools
- Improved tool life
- No chlorine or sulfur
- Has an effective rust inhibitor
- Cleaner machines
- Excellent work piece visibility
- Greater operator acceptance
- Rapid cooling
- Will not stain aluminum or copper
- Excellent for recycling.
- Low foaming in soft water
- Splits out tramp oil quickly

### **APPLICATION**

**SPIRIT 500 S** is recommended for the machining and grinding of ferrous and non-ferrous alloys. Operations include: milling, turning, drilling, boring, and threading. Also, O.D. and I.D. grinding operations including centerless and surface grinding.

**TOTAL Lubricants USA, Inc.**

ISO: 9001:2000 certified

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## **SPIRIT 500 S**

### **MIXING RATIOS**

The standard dilution ratio of water to oil is 20:1. **SPIRIT 500 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 **SPIRIT 500 S** is recommended. The concentration should be adjusted as necessary to maximize performance.

### **TYPICAL SPECIFICATIONS**

Appearance	Clear Yellow Liquid
Odor	Mild Chemical Odor
Specific Gravity @ 60 F	1.024
Density @ 60 F, lbs/gal	8.53
Sulfur Content	Nil
Chlorine Content	Nil
pH @ 1:9	9.4
Refractive Index, °BRIX	
5%	2.7
10%	5.3

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