

Spirit 800 S

Bio – Stable Semi – Synthetic Metalworking Fluid

(Formerly Elfcool SS 800)

DESCRIPTION

SPIRIT 800 S represents the most up-to-date technology in the development of a bio-stable semi-synthetic metalworking fluid.

SPIRIT 800 S has the following characteristics and 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
- High oil content for better surface finishing
- 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 800 S is recommended for the machining and grinding of ferrous and non-ferrous alloys. Operations include: milling, turning, drilling, boring, threading, and tapping. Also, O.D. and I.D. grinding operations including centerless and surface grinding.

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TOTAL Lubricants USA, Inc.

ISO: 9001:2000 certified

TOTAL Lubricants USA, Inc. with a policy of continuous improvement, reserves the right to change specifications as our technology progresses.
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SPIRIT 800 S

MIXING RATIOS

The standard dilution ratio of water to oil is 20:1. **SPIRIT 800 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 800 S** is recommended. The concentration should be adjusted as necessary to maximize performance.

WATER HARDNESS TOLERANCE

SPIRIT 800 S will maintain emulsion stability safely in water with 700 ppm hardness. Mineral levels up to 1000 ppm are manageable.

TYPICAL SPECIFICATIONS

Appearance	Light Amber Liquid
Odor	Amine Type Odor
Specific Gravity @ 60 F	1.01
Density @ 60 F, lbs/gal	8.42
Sulfur Content	Nil
Chlorine Content	Nil
pH @ 10 %	9.7
Cast Iron Chip Rust Test, 2%	Pass
Copper Corrosion, D-130	1a
Refractive Index, °BRIX	
5%	5.5
10%	9.8