SPIRIT 800 S





Heavy-Duty, Semi-Synthetic, Micro-Emulsion for Ferrous & Non-Ferrous Metals.

APPLICATIONS

- SPIRIT 800 S is a translucent, semi-synthetic coolant concentrate, which is easily
 diluted with water in all ratios. It represents the most up-to-date technology in the
 development of a bio-stable metalworking fluid. It accomplishes this without
 formaldehyde releasing biocides, secondary amines, or amines of questionable safety.
- SPIRIT 800 S is non-irritating to operators. It is multi-metal compatible, has high lubricity for aluminum and steel cutting, yet still has the best iron rust protection on the market at 2% CIC breakpoint. The surfactants are non-ionic which allows it to form a stable micro-emulsion with water of all qualities, from 0 to 700 ppm. Mineral levels up to 1000 ppm are manageable.
- **SPIRIT 800 S** is used on all cutting operations on all ferrous and non-ferrous metals. It will not stain aluminum or copper.

ADVANTAGES

- Bio-stable without formaldehyde release.
- Extreme pressure and anti-wear agents.
- Excellent lubricity properties--Increases the tool life on a large scale of cutting parameters maintaining an additive layer on the chip / workpiece / tool surface.
- Non-foaming, non-staining, non-flammable, non-irritating and non-toxic.
- Contains no sulfur, chlorine, nitrites, phenols, or diethanolamine.
- Permits operator surveillance of the workpiece at all times.
- · Splits out tramp oil quickly.
- Resistant to microbiological growth.
- Settles metal fines rapidly and keeps grinding wheels clean.
- Excellent for recycling.

TYPICAL CHARACTERISTICS	SPIRIT 800 S
Appearance	Light Amber Liquid
Density @ 60 °F, lbs./gal.	8.42
Specific Gravity @ 60/60 °F	1.01
Flash Point, COC, °F	None
Copper Strip Corrosion	1A - 1B
Sulfur, %wt.	None
Chlorine, %wt.	None
pH @ 10%	9.7
Refractive Index Factor	1.218
Refractive Index @ 10%	9.8
Cast Iron Chip Rust Breakpoint	2%

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 **SPIRIT 800 S** is recommended. The concentration should be adjusted as necessary to maximize performance.

TOTAL Lubricants USA, Inc

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