## **SPIRIT 500 S**





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

## **APPLICATIONS**

- SPIRIT 500 S is a translucent, semi-synthetic coolant concentrate, which is easily
  diluted with water in all ratios. When diluted, it forms a clear light yellow coolant with
  high heat transfer properties. SPIRIT 500 S shows exceptional service life in machine
  reservoirs. The sump life is insured by fortification with biocide and the buffering
  capability of the dilution.
- SPIRIT 500 S dilutions provides excellent interim rust protection for both the workpiece and the machines in which it is used.
- **SPIRIT 500 S** is used on all cutting operations on all ferrous and non-ferrous metals. It will not stain aluminum or copper.
- Operations include: general machining such as sawing, drilling, turning, boring, milling, reaming, trepanning, OD and ID grinding, centerless grinding, surface grinding, broaching, gear cutting, tapping, and threading.

## **ADVANTAGES**

- Resistant to microbiological growth.
- Extreme pressure and anti-wear agents.
- 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 / workpiece / tool surface.
- Non-foaming. Non-staining.
- Contains no sulfur, chlorine, nitrites, phenols, or diethanolamine.
- Permits operator surveillance of the workpiece at all times.
- Non-flammable and non-toxic.
- Splits out tramp oil quickly.
- · Settles metal fines rapidly and keeps grinding wheels clean.
- · Excellent for recycling.

TYPICAL CHARACTERISTICS	SPIRIT 500 S
Appearance	Clear Yellow Liquid
Density @ 60 °F, lbs./gal.	8.53
Specific Gravity @ 60/60 °F	1.024
Flash Point, COC, °F	None
Copper Strip Corrosion	1A - 1B
Sulfur, %wt.	None
Chlorine, %wt.	None
pH @ 10%	9.4
Refractive Index Factor	1.89
Refractive Index @ 5%	2.7
Refractive Index @ 10%	5.3

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

## TOTAL Lubricants USA Inc

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