

SPIRIT 40 S



METALWORKING



Light-Duty, Semi-Synthetic, Micro-Emulsion for Ferrous Metals.

APPLICATIONS

- **SPIRIT 40 S** is a amber colored, semi-synthetic coolant concentrate, which is easily diluted with water in all ratios. When diluted, it forms a clean, crisp amber colored coolant with high heat transfer properties. **SPIRIT 40 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 40 S** dilutions provide excellent rust protection for both work piece and the machines in which it is used. The residual film left by the coolant after water evaporation is oily, not gummy, and is easily washed with water. The fluid does not strip machine paints. It is non-toxic, non-flammable, and non-smoking.
- **SPIRIT 40 S** is used on all light-duty operations on ferrous metals.
- Operations include: general machining such as sawing, drilling, turning, boring, milling, and grinding.

ADVANTAGES

- Sweet, pleasant odor.
- 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 / work piece / tool surface.
- Low foaming.
- Non-staining.
- Permits operator surveillance of the work piece at all times.
- Non-toxic.
- Settles metal fines rapidly and keeps grinding wheels clean.

TYPICAL CHARACTERISTICS	SPIRIT 40 S
Appearance	Clear Amber Liquid
Emulsion Stability, 120 hours	Clear, Stable
Density @ 60 °F, lbs./gal.	8.31
Specific Gravity @ 60/60 °F	0.996
Flash Point, COC, °F	None
Copper Strip Corrosion	1A - 1B
Sulfur, %wt.	None
Chlorine, %wt.	None
pH @ 5%	9.09
Residue (after water evaporation)	Oily
Refractive Index @ 5%	2.0
Refractive Index Factor	2.5

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