



TRIM[®] MicroSol[®] 585

Nonchlorinated Semisynthetic Metalworking Fluid

GENERAL DESCRIPTION

TRIM[®] MicroSol[®] 585 is a high-lubricity, semisynthetic, microemulsion coolant. It provides excellent cooling and mechanical lubricity, along with the machine friendly characteristics you expect from a premium TRIM[®] coolant. While it is particularly well suited for machining and grinding gray iron, it does very well in mixed metal situations. MicroSol[®] 585 has proven to be an exceptional machining fluid for titanium alloys. MicroSol[®] 585 has a Pratt & Whitney approval number (PMC 9362).

ADVANTAGES

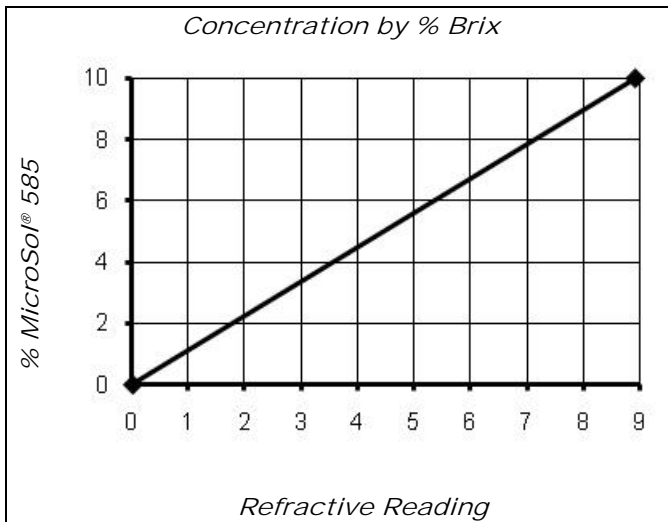
- Compatible with a very wide range of material including cast iron, steels, copper, titanium, and aluminum alloys, and many plastics and composites
- Optimized combination of cooling and lubricity for titanium machining applications
- Provides superior corrosion inhibition on cast iron and eliminates “hot chip” and clinkering problems
- Excellent alternative to chlorinated soluble oils on high silica aluminum alloys
- Contains no nitrites, triazines, phenols, chlorinated, or sulfurized EP additives
- Provides superior corrosion inhibition on all ferrous and nonferrous metals
- Keeps machines very clean while leaving a soft fluid film for ease of cleaning and reduced maintenance
- Has exceptional sump life without the use of biocides or fungicides
- Requires no special disposal or recycling techniques

APPLICATION GUIDELINES

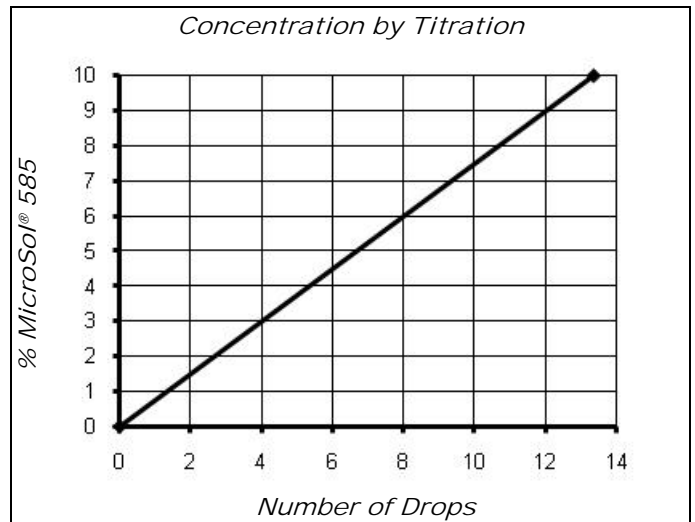
- MicroSol[®] 585 performs well where traditional soluble oils may not cool sufficiently.
- In mixed metal situations, concentration control is critical to fight galvanic corrosion (7.5% plus).
- Running at or above 7.5% offers the best sump life and corrosion inhibition on cast iron chips.
- MicroSol[®] 585 is not recommended for use on very reactive metals such as magnesium.
- For additional product applications information, including performance optimization, please contact your Master Chemical Authorized Distributor at 2trim.us/distributors.php, your District Sales Manager, the Tech Line at 1-800-537-3365, or visit our web site at www.masterchemical.com.

PHYSICAL PROPERTIES (TYPICAL DATA)

Color (concentrate).....	Yellow	Flash Point.....	Nonflammable (COC)
Color (working solution).....	Light Yellow	pH (Typical Operating as a range)	9.0-9.6
Odor.....	Mild	Coolant Refractometer Factor % Brix.....	1.1
Form	Liquid	Titration Factor (CGF-1 Titration Kit).....	.0.750



% Concentration = Refractive Reading x Refractive Factor
Coolant Refractometer Factor % Brix = 1.1



% Concentration = No. of Drops x Titration Factor
Titration Factor = 0.750

RECOMMENDED METALWORKING CONCENTRATIONS

- Light-duty machining and grinding.....5%-7%
- Moderate-duty machining.....7%-10%
- Design concentration range.....4%-10%

MIXING INSTRUCTIONS

- Using premixed coolant as makeup will improve coolant performance and reduce coolant purchases. The makeup you select should balance the water evaporation rate with the coolant carryout rate. Adding makeup coolant at one-third to one-half of the desired working concentration will generally maintain the proper concentration in the sump.
- Using DI or mineral-free water will improve sump life, reduce concentrate usage, reduce carryoff, and improve corrosion inhibition.
- Microemulsion products, like MicroSol® 585, work best if they are mixed by adding the coolant concentrate to the water (never the reverse) to help insure that the best possible microemulsion is formed.

HEALTH AND SAFETY

See the most recent SDS at 2trim.us/s/?i=1042-en-US-US.



NOTES

- Use Master STAGES™ Whamex™ for a quick and thorough pre-cleaning of your machine tool and coolant system.
- Before using on any metals or applications not specifically recommended, consult Master Chemical.
- This product should not be mixed with other metalworking fluids or metalworking fluid additives, except as recommended by Master Chemical Corporation, as this may reduce overall performance, result in adverse health effects, or damage the machine tool and parts. If contamination occurs, please contact Master Chemical Corporation for recommended action.
- MicroSol® 585 working solution is a yellow microemulsion and is not available with dye.
- Packaging: North America – 1-gallon jug, 5-gallon pail, 54-gallon drum, and 270-gallon tote bin.
- Packaging: Europe/Asia – 20-litre pail, 204-litre drum, and 1000-litre IBC.

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URL: 2trim.us/di/?i=155

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