TRIM® MicroSol® 485

Long-life Ferrous Semisynthetic

GENERAL DESCRIPTION

TRIM® MicroSol® 485 is a long life semisynthetic, microemulsion coolant designed for ferrous metalworking operations and optimized for difficult working environments associated with cast iron. MicroSol 485 prevents leaching of elemental iron and thus eliminates clinkering and oxidation of ferrous micro fines. Formula delivers extended sump life versus previous generation semisynthetics. It provides excellent cooling along with the machine friendly characteristics you expect from TRIM® coolants. MicroSol 485 is value-priced and specifically designed for use on ferrous metals.

ADVANTAGES

- The most cost conscience MicroSol® offering
- Dramatically extends useful life without the need for tank-side biocides or fungicides
- Provides superior corrosion inhibition on cast iron and eliminates “hot chip” and clinkering problems
- Contains no nitrites, triazines, phenols, chlorinated, or sulfurized EP additives
- Keeps machines very clean while leaving a soft fluid film for ease of cleaning and reduced maintenance
- Requires no special disposal or recycling techniques

APPLICATION GUIDELINES

- MicroSol 485 is designed for moderate to light-duty machining on ferrous metals.
- Running at or above 6% offers the best sump life and corrosion inhibition on cast iron chips.
- MicroSol 485 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.

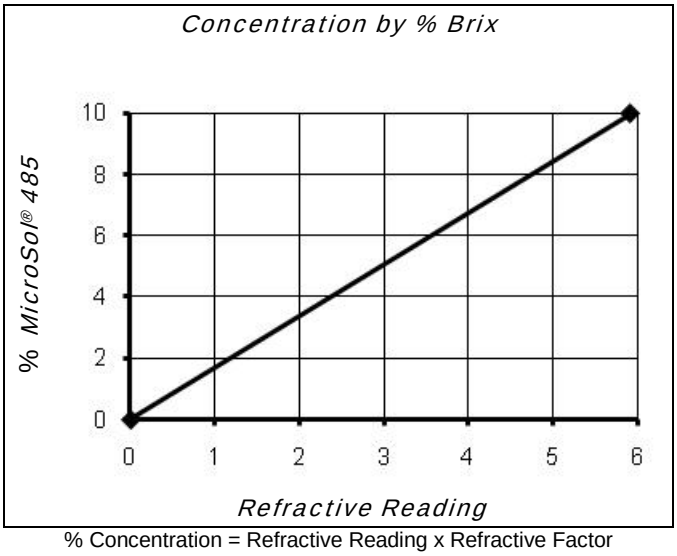
PHYSICAL PROPERTIES (TYPICAL DATA)

Color (concentrate)	Amber
Color (working solution)	Light Amber
Odor	Mild
Form	Liquid
Flash Point	Nonflammable (PMCC)
pH (Typical Operating as a range)	9.6-10.2
Coolant Refractometer Factor % Brix	1.7
Titration Factor (CGF-1 Titration Kit)	0.550

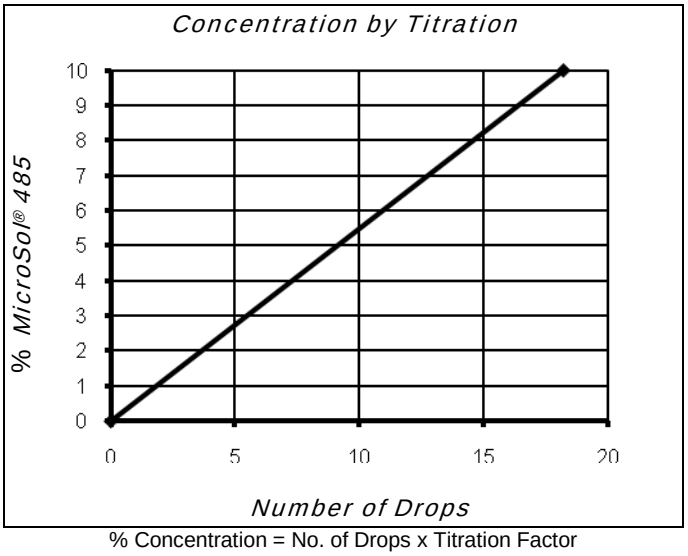
Master Chemical Corporation
501 West Boundary
Perrysburg, OH 43551-1200

Tel: 419-874-7902
Email: info@masterchemical.com
Web: www.trimfluids.com

TECH SERVICE HOTLINE
800-537-3365



% Concentration = Refractive Reading x Refractive Factor
Coolant Refractometer Factor % Brix = 1.7



% Concentration = No. of Drops x Titration Factor
Titration Factor = 0.550

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 485, 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=1017-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® 485 working solution is a light amber 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.