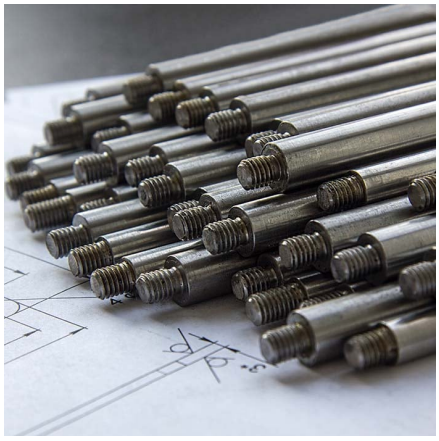
TRIM™ SC310

Microemulsion Semisynthetic

TRIM™ SC310 is a high-oil, semichemical coolant. This product combines the cooling, rust inhibition, and wetting of a premium synthetic with the mechanical lubricity and machine "friendliness" of a soluble oil. SC310 is well-suited for general, high-speed machining and grinding of all materials.

A Thailand Manufacturer Increased Tool Life 5% with TRIM® SC310



With more than 16 years of experience in manufacturing precision axles and shafts and other parts backed by an expert technical team, the customer is committed to providing their customers and partners with high-quality products, competitive prices, and timely service.

Choose SC310:

- Compatible with a very wide range of material including: cast iron, steels, copper, and many plastics and composites
- Provides superior corrosion inhibition on all ferrous and nonferrous metals and eliminates “hot chip” and clinkering problems often seen when machining cast iron
- Keeps machines very clean while leaving a soft fluid film for ease of cleaning and reduced maintenance
- Has exceptional sump life and very low makeup for extremely low total operating cost
- Low odor and mist makes for an operator-friendly product
- Extremely effective EP additive package
- Contains no nitrites, heavy metals, phenolic compounds
- Easy recycling or disposal with conventional techniques and equipment

SC310 especially for:

Applications — band sawing, centerless grinding, cylindrical grinding, drilling, form cylindrical grinding, internal grinding, milling, plain grinding, reaming, tapping, and turning

Materials — cast iron, ferrous metals, nonferrous metals, stainless steels, and steels

Industries — automotive, general fabrication, and job shop

SC310 is free of — NPEs and sulfur

Master Fluid SOLUTIONS™

TRIM™ SC310

Microemulsion Semisynthetic

Application Guidelines

- Works well in the general machine shops where soluble oil may smoke or not cool sufficiently under heavy cutting loads
- In mixed metal situations, concentration control is critical to fight the effects of galvanic corrosion (7.5% plus)
- Concentrations of 7.0% or more offers both the best sump life and corrosion inhibition
- Not recommended for use on very reactive metals like aluminum alloys, magnesium, and zirconium
- Check for and correct mechanical causes of foam before adding antifoams
- For additional product application information, including performance optimization, please contact your Master Fluid Solutions' Authorized Distributor at https://www.masterfluids.com/ap/en-ap/distributors/index.php, your District Sales Manager, or email us at apac-info@masterfluids.com.

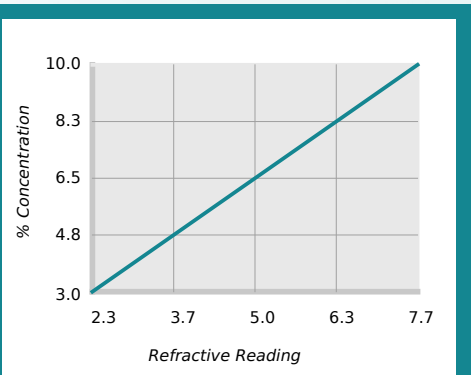
Physical Properties Typical Data

Color (Concentrate)	Blue
Color (Working Solution)	Blue
Odor (Concentrate)	Mild
Form (Concentrate)	Liquid
Flash Point (Concentrate) (ASTM D92-90)	> 100°C
pH (Typical Operating as Range)	9.1 - 10.1
Coolant Refractometer Factor	1.3

Recommended Metalworking Concentrations

Light Duty	3.0% - 6.0%
Moderate Duty	6.0% - 8.0%
Heavy Duty	8.0% - 10.0%
Design Concentration Range	3.0% - 10.0%

Concentration by % Brix



% Concentration = Refractive Reading x Refractive Factor
Coolant Refractometer Factor % Brix = 1.3

Health and Safety

Request SDS

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Mixing Instructions

- Recommended usage concentration in water: 3.0% - 10.0%.
- To help ensure the best possible working solution, add the required amount of concentrate to the required amount of water (never the reverse) and stir until uniformly mixed.
- Use premixed coolant as makeup to improve coolant performance and reduce coolant purchases. The makeup you select should balance the water evaporation rate with the coolant carryout rate. Use our Coolant Makeup Calculator to find the best ratio for your machine: apps.masterfluids.com/makeup/.
- Use mineral-free water to improve sump life and corrosion inhibition while reducing carryoff and concentrate usage.

Ordering Information

20-liter pail

204-liter drum

1000-liter tote

Additional Information

- Use Master STAGES™ Whamex XT™ for a quick and thorough precleaning of your machine tool and coolant system.
- Consult Master Fluid Solutions before using on any metals or applications not specifically recommended.
- This product should not be mixed with other metalworking fluids or metalworking fluid additives, except as recommended by Master Fluid Solutions, as this may reduce overall performance, result in adverse health effects, or damage the machine tool and parts. If contamination occurs, please contact Master Fluid Solutions for recommended action.
- TRIM™ is a trademark of Master Chemical Corporation d/b/a Master Fluid Solutions.
- Master STAGES™ and Whamex XT™ are trademarks of Master Chemical Corporation d/b/a Master Fluid Solutions.
- The information herein is given in good faith and believed current as of the date of publication and should apply to the current formula version. Because conditions of use are beyond our control, no guarantee, representation, or warranty expressed or implied is made. Consult Master Fluid Solutions for further information. For the most recent version of this document, please go to this URL:

https://2trim.us/di/?i=ap_en-ap_SC310

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