



# TRIM<sup>®</sup> SC200

## *Cutting and Grinding Fluid Concentrate*

### GENERAL DESCRIPTION

TRIM<sup>®</sup> SC200 is a semisynthetic general-purpose cutting and grinding fluid concentrate for the multi-material, multi-operations shop. SC200 uses a proven EP additive package to control built-up edge, improve tool life, and has the wetting and cooling characteristics necessary for superior machining results on high-speed milling and turning operations. It also controls chip welding on soft, gummy materials like aluminum.

### ADVANTAGES

- Good sump life in "stand alone" machines
- Effective in most grinding, sawing, drilling and CNC turning and milling operations by varying concentrations
- Provides sufficient lubricity to do down-the-hole operations in aluminum, cast iron and most steels, including many stainless steels
- Compatible with a very wide range of materials including cast iron, steels, copper and aluminum alloys as well as most plastics and composites
- Low odor and mist
- Low to moderate foam with normal "flood" coolant application
- Rejects tramp oils rapidly for easy recycling with good sump life
- Easily recycled or disposed of using conventional techniques and equipment

### APPLICATION GUIDELINES

- While SC200 is not well suited for Blanchard or double disc type grinding, it is a superior product for surface and cylindrical grinding as well as through feed centerless grinding.
- High torque operations or operations on soft material often benefit from higher concentrations.
- Concentrations in excess of 7% typically offer the best sump life and tool life. However, the optimum concentration for your operations is best determined by on-site testing.
- The minimum recommended concentration is 5% on cast iron and 4% on steel.
- Not recommended on materials that chemically react with water (i.e., magnesium and zirconium).
- For additional applications information, please contact your Master Chemical Authorized Distributor, District Manager, the Tech Line at 1-800-537-3365, or our website at [www.masterchemical.com](http://www.masterchemical.com).

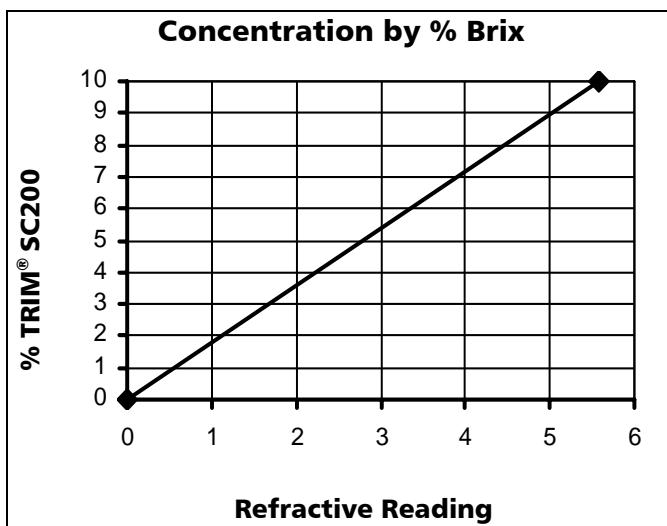
### PHYSICAL PROPERTIES (TYPICAL DATA)

Color .....	Blue	Coolant refractometer factor % Brix .....	1.79
Form .....	Liquid	pH of Concentrate .....	8.8
Flash Point.....	None to boiling (COC)	Titration Factor (CGF-1 Titration Kit) .....	0.68
pH Typical Operating Range .....	8.2 – 8.8	Odor .....	Mild

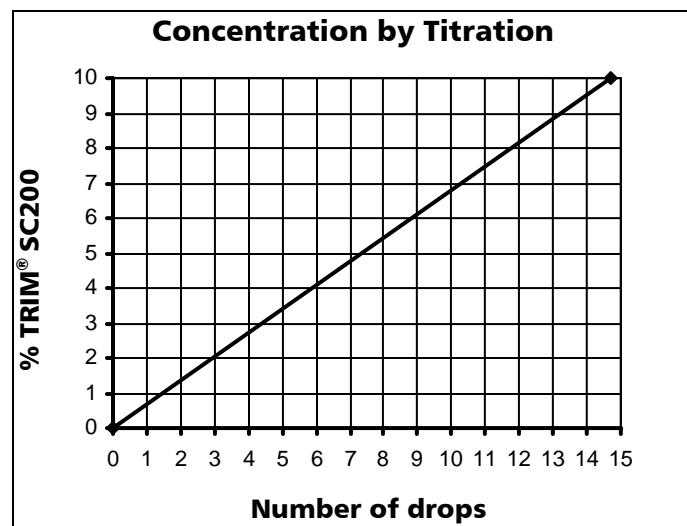


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% Concentration = Refractive Reading x Refractive Factor  
Coolant Refractometer factor % Brix = 1.79



% Concentration = No. of Drops x Titration Factor  
Titration Factor = 0.68

## RECOMMENDED METALWORKING CONCENTRATIONS

Light-duty machining and grinding ..... 5% to 6%  
Moderate to heavy-duty machining and grinding ..... 7% to 10%  
Design concentration range ..... 4% to 10%

## MIXING INSTRUCTIONS

- Using premixed coolant as makeup will substantially improve coolant performance and reduce coolant concentrate purchases. The specific makeup concentration selected for your situation should balance the water evaporation rate with the coolant carryout rate. Adding makeup coolant at 10% to 25% of the desired working concentration will generally maintain the proper concentration in the sump.
- The use of DI or mineral-free water to mix this product will improve sump life, reduce concentrate usage, reduce carryoff, improve corrosion inhibition, etc.
- Percent concentration may be calculated by multiplying the refractometer factor by the refractometer reading or by multiplying the number of drops of acid by the titration factor.

## HEALTH & SAFETY

See the most recent MSDS, which is available either directly from Master Chemical Corporation, from your Master Chemical Authorized Distributor, or may be printed from our website at [www.masterchemical.com](http://www.masterchemical.com).

## NOTES

- Before using this product on any metals and applications not specifically recommended, consult Master Chemical Corporation.
- 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 the overall performance of the product as well as result in adverse health effects and damage to the machine tool and parts. If inadvertent contamination should occur, please contact Master Chemical Corporation for recommended action.
- Normally a clear blue product, but may be special ordered without the blue dye as TRIM® SC200 nd.
- Available in: 5-gallon pail, 54-gallon drum, 270-gallon recyclable bin, and tank wagon lot:
- Europe/Asia – 20-litre pail, 204-litre drum, 1000-litre IBC.

Because conditions of use are beyond our control, no warranty, guarantee or representation is made or intended in connection with the use of this product.

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