



TRIM[®] C276

Clean-running Synthetic

GENERAL DESCRIPTION

TRIM[®] C276 is a synthetic coolant that meets the needs of the most modern and demanding manufacturers. C276 makes use of the latest synthetic coolant formulation and specially synthesized oil to produce a versatile product that is clean running, has great sump life, and is kind to both machines and operators. This product will perform well in centerless and cylindrical form grinding as well as on high-speed, single-point turning, and down-the-hole work on vertical and horizontal machining centers.

ADVANTAGES

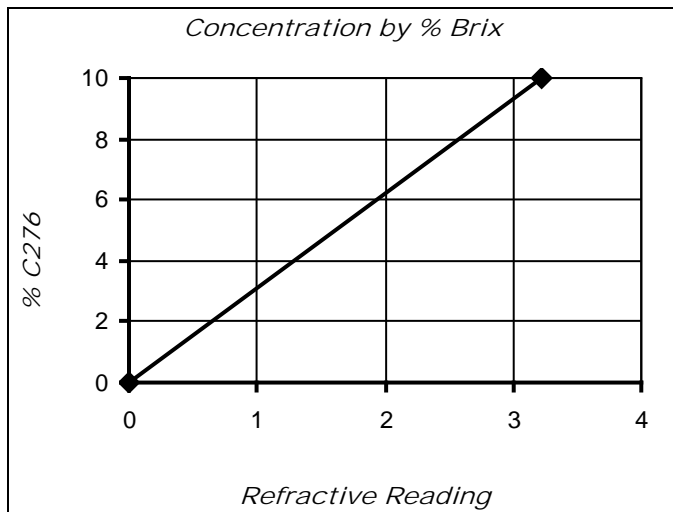
- Compatible with a very wide range of materials including cast iron, steels, copper alloys, plastics, and composites
- Very low foam and mist
- Provides excellent corrosion inhibition on all common ferrous alloys
- Keeps your machines clean while leaving a soft fluid film that protects the bare metal parts of your machine tools - this film is easily washed off with coolant working solution for easy machine cleaning
- Excellent extreme pressure (EP) lubricity to do many form grinding, drilling, tapping, and reaming operations without the need for chlorine or sulfur-based EP additives
- Extremely low carryoff for very low total operation costs
- Exceptional sump life and very good tramp oil rejection
- Very low initial odor level which usually disappears after one-to-two days
- Minimizes the buildup of sticky residues

APPLICATION GUIDELINES

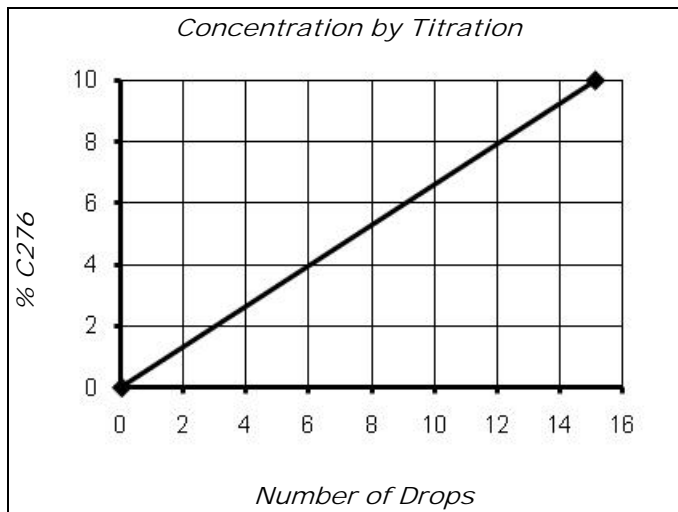
- The minimum recommended concentration is 5% on cast iron and 4% on steel. Concentrations in excess of 7.5% typically provide the best corrosion inhibition, tool life, and sump life; however, the optimum concentration for your operation can best be determined by on-site testing.
- C276 is not recommended on magnesium or zirconium without special precautions.
- C276 is a superior cleaning agent so it may “wash out” dirt and residues when a machine is first charged.
- 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).....	Colorless to pale yellow	Flash Point.....	Nonflammable (COC)
Color (working solution).....	Colorless to pale yellow	pH (Typical Operating as a range)	9.4-9.8
Odor.....	Mild chemical	Coolant Refractometer Factor % Brix.....	3.1
Form	Liquid	Titration Factor (CGF-1 Titration Kit).....	0.660



% Concentration = Refractive Reading x Refractive Factor
Coolant Refractometer Factor % Brix = 3.1



% Concentration = No. of Drops x Titration Factor
Titration Factor = 0.660

RECOMMENDED METALWORKING CONCENTRATIONS

- Light-duty machining and grinding 4%-6%
- Moderate-duty machining and grinding 5%-7%
- Heavy-duty machining and grinding 7%-10%

MIXING INSTRUCTIONS

- Using pre-mixed 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 5%-15% 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.

HEALTH AND SAFETY

See the most recent MSDS at 2trim.us/ms/?i=259.



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 specifically 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.
- 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.

The information herein is given in good faith and believed current as of the date of this Data & Information sheet 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 Chemical Corporation for further information. For the most recent version of this document, please go to this

URL: 2trim.us/di/?i=156

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