TRIM™ C270

High-performance Synthetic

TRIM C270 is a state-of-the-art synthetic coolant. C270 provides excellent cooling and chip settling, good tramp oil rejection, and machine cleanliness, and meets the needs of the modern job shop for a single premium synthetic coolant for virtually all machining operations.

TRIM[®] Coolant Speeds Up Production of Valuable Compressors Needed to Fight COVID-19 Pandemic



Due to the COVID-19 pandemic, medical centers and pharmacies have had an unprecedented need for refrigeration units to help store lab specimens, medications, and vaccines. Therefore, refrigerator manufacturers have required a high volume of compressors on extremely short notice.

The demand has become so high that several companies - including plants based in Asia producing bearings and rollers for rotary compressors - have seen their lead time increase from two to eight weeks, significantly slowing down the production of these life-saving components.

Aerospace Approvals

Company	Specification
GE Aerospace	No specification available
Raytheon Technologies/Collins Aerospace/Pratt & Whitney	PMC 9392
Rolls-Royce	CSS 130
Safran Group	PR6300



Choose C270:

- C270 is compatible with a very wide range of materials including: cast iron, steels, and copper alloys, as well as plastics and composites
- Provides excellent corrosion inhibition on all common ferrous alloys
- Does a great job in form grinding, drilling, tapping, and reaming operations without chlorine or sulfur-based EP additives
- Extremely low carryoff for very low total operation costs
- Very low foam and mist
- Keeps your machines clean while leaving a soft, fluid film that protects the bare metal parts. This residual film is easily resoluble in coolant working solution to facilitate easy machine cleaning and minimize the buildup of sticky residues that can hold machine-destroying chips
- Exceptional sump life and very good tramp oil rejection
- A very low initial odor level which usually disappears after one-to-two days

C270 especially for:

Applications — band sawing, belt grinding, Blanchard grinding, cooling, corrosion inhibition, creep-feed grinding, cutting, cylindrical grinding, double disc grinding, drilling, form cylindrical grinding, form grinding, grinding, internal grinding, plain grinding, reaming, surface grinding, surface milling, tapping, and turning

Metals — cast iron, composites, exotic alloys, nickel alloys, plastics, stainless steels, steels, titanium, and tool steels

Industries — aerospace, automotive, compressor, energy, machine tool, and medical

C270 is free of — animal derived materials, chlorinated EP additives, DCHA, nitrites, NPEs, phosphorous, siloxane, and sulfurized EP additives



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Application Guidelines

- The harder you work this product the better the results will be.
- C270 is not recommended in machine tools that rely on the splash of the coolant to lubricate the mechanical portions of the machine tool, e.g. older screw machines, etc.
- C270 is not recommended on materials like magnesium or zirconium without special precautions.
- This product is a superior cleaning agent so it may "wash out" dirt
 and residues when a machine is first charged; a thorough cleaning
 of older machines is required when installing this product the first
 time.
- The minimum recommended concentration is 5% on cast iron and 4% on steel.
- Concentrations above 7.5% provide excellent corrosion inhibition, tool life, and sump life; however, the best concentration for your operation should be determined by on-site experience.
- 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 apacinfo@masterfluids.com.

Physical Properties Typical Data

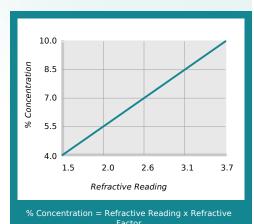
Color (Concentrate) Yellow Color (Working Solution) Colorless Odor (Concentrate) Mild, pleasant Form (Concentrate) Liquid Flash Point (Concentrate) (ASTM D92-90) > 100°C pH (Typical Operating as Range) 9.0 - 10.0Coolant Refractometer Factor 2.7 **Digital Titration Factor** 0.0175

■ Recommended Metalworking Concentrations

Light Duty	4.0% - 6.5%
Moderate Duty	6.5% - 8.5%
Heavy Duty	8.5% - 10.0%
Design Concentration Range	4.0% - 10.0%



Concentration by % Brix



Coolant Refractometer Factor % Brix = 2.7

Health and Safety

Request SDS





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Mixing Instructions

- Recommended usage concentration in water: 4.0% 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

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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_C270



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