TRIM™ C276-em

Clean-running Synthetic

TRIM C276-em is a synthetic coolant that meets the needs of the most modern and demanding manufacturers. C276-em makes use of the latest synthetic coolant formulation and specially synthesised 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 centreless and cylindrical form grinding as well as on high-speed, single-point turning and down-the-hole work on vertical and horizontal machining centres.

Synthetics



Peak your performance:

TRIM™ clean-running synthetics contain little to no oil. They are typically hard-water tolerant with good corrosion protection. Plus, synthetics leave very low residue for easy cleaning. Paired with extremely low carryoff, synthetics translate to less maintenance and lower operational costs, saving you time and money.

Run clean and long with TRIM synthetics.

Choose C276-em:

- 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 and tapping operations
- Extremely low carryoff for very low total operation costs
- Exceptional sump life and very good tramp oil rejection
- Low initial charge odour which dissipates further after one or two days
- Minimises the buildup of sticky residues

C276-em especially for:

Applications — cylindrical grinding, down the hole work, drilling, tapping and turning

Materials — cast iron, composites, plastics, stainless steels and steels

Industries — automotive, bearing, compressor and job shop

C276-em is free of — chlorine, DEA, formaldehyde releasers, nitrites, phenolic compounds and sulphur-based additives

Master Fluid SOLUTIONS™

TRIM™ C276-em

Clean-running Synthetic

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-em is not recommended on magnesium or zirconium without special precautions.
- C276-em is a superior cleaning agent so it may "wash out" dirt and residues when a machine is first charged.
- For additional product application information, including performance optimisation, please contact your Master Fluid Solutions' Authorised Distributor at https://www.masterfluids.com/eu/en/distributors/index.php, your District Sales Manager, or call our Tech Line at +49 211 41 72 8 -900.

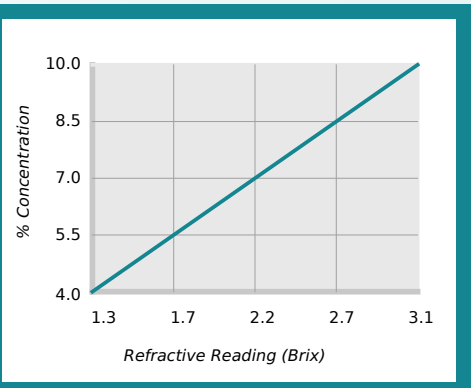
Physical Properties Typical Data

Colour (Concentrate)	Straw yellow
Colour (Working Solution)	Colorless
Odour (Concentrate)	Mild amine
Form (Concentrate)	Liquid
Flash Point (Concentrate) (ASTM D93-08)	> 100°C
pH (Concentrate as Range)	9.5 - 10.5
pH (Typical Operating as Range)	9.1 - 10.1
Coolant Refractometer Factor	3.2

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



% Concentration = Refractive Reading x Refractive Factor
Coolant Refractometer Factor % Brix = 3.2

Health and Safety

Request SDS

Master Fluid SOLUTIONS™

TRIM™ C276-em

Clean-running Synthetic

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-litre pail

204-litre drum

1000-litre IBC

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 registered 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=eu_en_C276-EM

Hasselsstraße 6-14
Düsseldorf, 40597
Germany
+49 211 41 72 82 00

info-eu@masterfluids.com

masterfluids.com/eu/en/