TRIM™ C116

Low-foam synthetic

TRIM C116 is a high-performance synthetic fluid for working cast iron and mild steels. State-of the-art technologies provide excellent cooling and chip settling, very low foam, good tramp oil rejection and machine cleanliness while leaving a protective film on the machine tool.

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 C116:

- Provides excellent corrosion inhibition on ferrous alloys
- Excellent biostability
- Extremely low carry off for very low total operation costs
- Very low foam and mist
- Low chemical odour
- Keeps your machines clean while leaving a soft, fluid film that protects the bare metal parts of your machine tools
- Very good tramp oil rejection

C116 especially for:

Applications — belt grinding, Blanchard grinding, cooling, cylindrical grinding, double disc grinding, drilling, form cylindrical grinding, internal grinding, plain grinding, reaming, surface grinding, surface milling, tapping and turning

Materials — cast iron, composites, nonferrous metals, plastics and steels

Industries — aerospace, automotive, compressor and job shop

C116 is free of — boron and formaldehyde releasers

Master Fluid SOLUTIONS™

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Application Guidelines

- TRIM C116 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.
- TRIM C116 is not recommended on materials like magnesium or zirconium without specail precautions.
- This product is a superior cleaning agent so it may "wash out" dirt and residues when a machine is firstcharged; 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 in excess of 7% provide the best corrosion inhibition, tool life and sump life.
- 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.

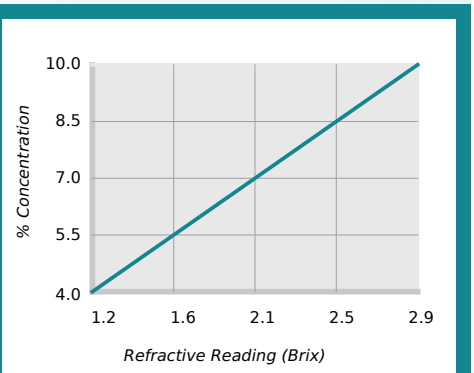
Physical Properties Typical Data

Colour (Concentrate)	Light yellow
Colour (Working Solution)	Colorless
Odour (Concentrate)	Mild amine
Form (Concentrate)	Liquid
Flash Point (Concentrate) (ASTM D92-90)	> 100°C
pH (Concentrate as Range)	9.7 - 9.9
pH (Typical Operating as Range)	9.5 - 9.7
Coolant Refractometer Factor	3.4

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 = 3.4

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-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.
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https://2trim.us/di/?i=eu_en_C116

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