

C350

Premium Synthetic Metalworking Fluid



TRIM® C350 is a synthetic metalworking fluid optimised for the chemical, environmental, and machining requirements of the aerospace industry. C350 uses the best polymer technology to yield a very high performance, easy to use and maintain metal removal fluid. The combination of the proven synthetic polymer technology and nonchlorinated EP package produces very high levels of usable lubricity at the point-of-cut. C350's unique chemical formula allows superior, nonferrous corrosion prevention particularly on aerospace aluminium alloys.

Synthetics



Peak your performance:

TRIM® clean-running synthetics contain little-to-no oil. They are 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 C350:

- Meets the most stringent nuclear and aerospace chemical content and machining requirements
- Superior resistance to corrosion on both nonferrous and ferrous materials including aerospace aluminiums 7075, 2024, 3000, titanium, Inconel®, brass, and high-strength alloy steels
- Water-clear, low foaming, and misting, C350 is a joy to work with and manage
- Provides superior results in a wide range of operations from general grinding to spar milling and turbine blade manufacture
- Easily removed from parts for easy cleanup before assembly, painting, or plating operations
- Very low carryoff and long sump life results in low operating cost

C350 especially for:

Applications — band sawing, belt grinding, Blanchard grinding, creep-feed grinding, cylindrical grinding, double disc grinding, drilling, form cylindrical grinding, form grinding, in-feed centerless grinding, internal grinding, nonferrous corrosion prevention, plain grinding, reaming, roll threading, surface grinding, surface milling, tapping, thread forming, through-feed centerless grinding, turning

Metals — 2024, 5000, 6000, 7075, aerospace aluminium alloys, brass, bronze, cast aluminium, composites, copper, exotic alloys, ferrous metals, glass, heat-treated steel, high-carbon steel, high-nickel alloys, high-strength alloy steels, Inconel®, nonferrous metals, plastics, stainless steels, titanium, wrought aluminium and yellow metals

Industries — aerospace

C350 is free of — chlorine, formaldehyde releasers, nitrites, phenols, silicone, sulphur

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Application Guidelines

- Higher concentrations of C350 increase both boundary and EP lubrication.
- Very low foam at working temperatures above 27°C.
- Maintaining concentration from 7.5% to 10% provides the best sump life and corrosion inhibition.
- C350 is not recommended on cast irons.
- C350 should not be used on magnesium or other reactive metals without special precautions.
- For additional product application information, including performance optimisation, please contact your Master Fluid Solutions' Authorised Distributor at <https://www.2trim.us/distributors.php>, your District Sales Manager, or call our Tech Line at +49 211 77 92 85 - 13.

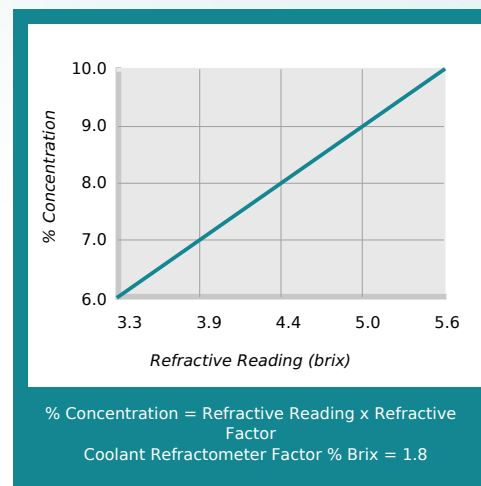
Physical Properties Typical Data

| | |
|-----------------------------------------|----------------------------|
| Colour (Concentrate) | Colourless to light yellow |
| Colour (Working Solution) | Colourless to light yellow |
| Odour (Concentrate) | Mild amine |
| Form (Concentrate) | Liquid |
| Flash Point (Concentrate) (ASTM D92-90) | > 93°C |
| pH (Concentrate as Range) | 8.1 - 8.5 |
| pH (Typical Operating as Range) | 7.8 - 8.2 |
| Coolant Refractometer Factor | 1.8 |
| Titration Factor (CGF-1 Titration Kit) | 0.73 |
| Digital Titration Factor | 0.0282 |
| V.O.C. Content (ASTM E1868-10) | 45 g/l |

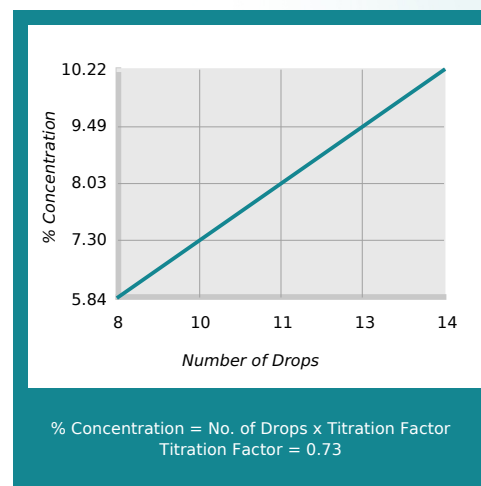
Recommended Metalworking Concentrations

| | |
|----------------------------|--------------|
| Light duty | 6.0% - 7.0% |
| Moderate duty | 7.0% - 9.0% |
| Heavy duty | 9.0% - 10.0% |
| Design Concentration Range | 6.0% - 10.0% |

Concentration by % Brix



Concentration by Titration



Health and Safety

For further information, see the most recent SDS which is available directly from Master Fluid Solutions or from your Master Fluid Solutions' Authorised Distributor.

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Mixing Instructions

- Recommended usage concentration in water: 6.0% - 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.masterfluidsolutions.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


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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 registered trademark of Master Chemical Corporation d/b/a Master Fluid Solutions.
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- 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:


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