

E923

Cutting and Grinding Fluid Concentrate

TRIM® E923 is a proprietary blend of new vegetable-based technology and very high levels of chlorine free extreme pressure (EP) additives to yield an extreme performance, low management metal removal fluid. This premium emulsion product is robust enough to deliver unparalleled tool life in some of the most difficult metal cutting operations whilst still providing the excellent non-cutting characteristics normally associated with traditional, high quality emulsions from Master Fluid Solutions. The optimised lubricity and extreme pressure package matches heavy duty neat oils on difficult to machine materials such as inconel, titanium, stainless steel and high tensile strength steels.

Soluble Oils



Geared up for production:

With superior mechanical lubricity and a higher oil content, TRIM® emulsions provide a greater boundary layer between the tool and the material. Emulsions are ideal for lower, less than 600 SFPM, applications such as broaching, reaming, deep hole drilling, drilling, tapping and centerless grinding.

Emulsions work well for machining copper, yellow metals, steel alloys, cast aluminums, wrought aluminums and tough-to-machine titanium and nickel-based alloys.

Gear up with the TRIM emulsion designed to meet your production needs.



Choose E923:

- Delivers exceptional lubricity and EP performance
- Has the necessary performance to replace neat oils in certain applications
- Very long sump life
- Low foam even in soft water areas
- Hard water tolerant
- Compatible with all materials excluding magnesium
- Easily recycled or disposed of without special handling or equipment
- Will run effectively for long periods without the need for costly additives

E923 especially for:

Applications — boring, broaching, deep hole drilling, down the hole work, drilling, Ejector® drilling, gear cutting, gear shaping, gun drilling, heavy-duty machining center work, high-pressure, high-volume, honing, lubricity additive, milling, reaming, roll threading, screw machine operations, tapping, thread forming, thread rolling and turning

Metals — aluminium alloys, nickel alloys, stainless steels, steel alloys and titanium

Industries — automotive and energy

E923 is free of — boron, chlorine, formaldehyde releasers, nitrites and phenolic compounds

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Application Guidelines

- 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 +44 (0)1449 726808.

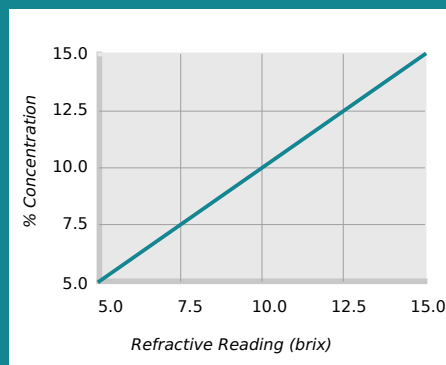
Physical Properties Typical Data

Colour (Concentrate)	Amber
Odour (Concentrate)	Mild amine
Form (Concentrate)	Liquid
Flash Point (Concentrate) (ASTM D93-08)	> 160°C
pH (Concentrate as Range)	9.5 - 10.0
pH (Typical Operating as Range)	9.0 - 9.9
Coolant Refractometer Factor	1.0

Recommended Metalworking Concentrations

Light duty	5.0% - 8.0%
Moderate duty	8.0% - 10.0%
Heavy duty	10.0% - 15.0%
Design Concentration Range	5.0% - 15.0%

Concentration by % Brix



% Concentration = Refractive Reading x Refractive Factor
Coolant Refractometer Factor % Brix = 1.0

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: 5.0% - 15.0%.
- 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™ for a quick and thorough precleaning of your machine tool and coolant system.
- Before using on any metals or applications not specifically recommended, consult Master Fluid Solutions.
- 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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