TRIM[®] MicroSol™ 515

Cutting and Grinding Fluid Concentrate

TRIM MicroSol 515 is a medium to high lubrication, semi-synthetic microemulsion coolant. It provides excellent cooling and mechanical lubricity, along with the machine friendly characteristics you would expect from a premium TRIM coolant. While it is particularly well suited for machining and grinding cast iron it does very well in mixed metal situations and is a proven performer when machining aluminium, inconel and titanium alloys.

Precision Engineering Firm Extends Fluid Life to 12 Months with TRIM™ MicroSol™ 515



The customer is a UK-based precision engineering firm, long established as a leader in manufacturing of glass melting technology. Since its inception in the 1870s, the company has continually evolved and now provides services for the automotive, confectionery, printing and packaging sectors, among many others



Choose MicroSol 515:

- Medium to high levels of lubrication without chlorinated or sulphurised EP additives
- Compatible with aluminium, all steels, yellow metals and cast iron
- · Extremely hard water tolerant
- Alternative to emulsion products for machining of high silica aluminium alloys
- Fine soluble oil emulsion reduces carry-off for low total operating cost
- Fast wetting to get the fluid to the point of cut and fully coat the work piece and chips for superior corrosion prevention
- No aggressive biocides
- Easily recycled or disposed of without special handling or equipment
- Contains no DEA, chlorine, sulphur, nitrites, formaldehyde releasers, or phenolic compounds

MicroSol 515 especially for:

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

Metals — aerospace aluminium alloys, brass, bronze, cast iron, copper, ferrous metals, nonferrous metals and steels

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

MicroSol 515 is free of — chlorinated EP additives, DEA, formaldehyde releasers, nitrites and sulphurised EP additives



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Application Guidelines

- TRIM MicroSol 515 will run effectively for long periods without the need for costly additives.
- It can run at lower concentrations for higher speed operations (where heat removal is the key issue).
- Higher concentrations are recommended on soft, gummy materials and for lower speed operations where friction reduction and control of built-up edge are critical.
- Concentrations above 7% provide the best 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 77 92 85 - 13.

Physical Properties Typical Data

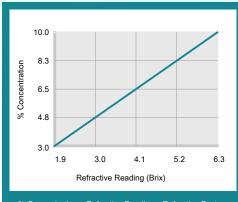
Colour (Concentrate)	Light brown
Odour (Concentrate)	Mild Amine
Form (Concentrate)	Liquid
Flash Point (Concentrate) (ASTM D93-08)	> 160°C
pH (Concentrate as Range)	9.1 - 10.1
pH (Typical Operating as Range)	9.0 - 9.5
Coolant Refractometer Factor	1.6

Recommended Metalworking Concentrations

Light Duty	3.0% - 6.5%
Moderate Duty	6.5% - 8.5%
Heavy Duty	8.5% - 10.0%
Design Concentration Range	3.0% - 10.0%



Concentration by % Brix



% Concentration = Refractive Reading x Refractive Factor Coolant Refractometer Factor % Brix = 1.6

Health and Safety

Request SDS





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Mixing Instructions

- Recommended usage concentration in water: 3.0% 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

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Additional Information

- Use Master STAGES[™] Whamex[™] 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_MS515



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