TRIM™ MicroSol™ 690XT

High-lubricity, Low-foam Premium Semisynthetic

TRIM MicroSol 690XT is a high-lubricity, semisynthetic, microemulsion coolant. The formula delivers extended sump life and better foam control versus previous generation semisynthetics. It provides excellent cooling and mechanical lubricity, along with the machine friendly characteristics you expect from a premium TRIM coolant. It does very well in mixed metal situations and is compatible with a very wide range of materials including titanium, high nickel alloys, steels, copper, and aluminum alloys.

Asian Automotive Manufacturer Enhances Operations with MicroSol™ 690XT

A large automotive parts and components manufacturer, the customer specializes in die-cast aluminum engine heads and powdered metal valve seats. Their high-volume operation produces superior precision parts with top-quality finishes. As the company looks to the future, they are interested in implementing environmentally friendly production methods.

Choose MicroSol 690XT:

- Dramatically extends useful life without the need for tank-side biocides or fungicides
- Boron and halogen free
- Low foaming for todays demanding high-pressure, high-volume applications
- Compatible with a very wide range of materials including titanium, high nickel alloys, steels, copper, and aluminum alloys
- Excellent alternative to chlorinated soluble oils on high-silica aluminum alloys
- Contains no nitrites, triazines, phenols, chlorinated, or sulfurized EP additives
- Provides superior corrosion inhibition on all ferrous and nonferrous metals
- Keeps machines very clean while leaving a soft fluid film for ease of cleaning and reduced maintenance
- Uses standard metalworking recycling and disposal techniques

MicroSol 690XT especially for:

Applications — band sawing, cylindrical form grinding, drilling, grinding, high-pressure, high-volume, internal grinding, plain grinding, reaming, roll threading, surface grinding, surface milling, tapping, thread forming, through-feed centerless grinding, and turning

Materials — 6000 series aluminum, aerospace aluminum alloys, aluminum alloys, brass, bronze, cast aluminum, cast iron, composites, copper, copper alloys, exotic alloys, glass, heat-treated steel, high-carbon steel, high-nickel alloys, high-silica aluminum alloys, nonferrous metals, plastics, stainless steels, steels, titanium, and wrought aluminum

Industries — aerospace, automotive, bearing, compressor, diecast, energy, firearms, green, job shop, machine tool, and medical

MicroSol 690XT is free of — boron, chlorinated EP additives, formaldehyde releasers, halogens, nitrites, phenols, and sulfurized EP additives

Master Fluid SOLUTIONS™

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Application Guidelines

- MicroSol 690XT performs well where traditional soluble oils may not cool sufficiently.
- In mixed-metal situations, concentration control is critical to fight galvanic corrosion (7,5% plus).
- Running at or above 7,5% offers the best sump life and corrosion inhibition on cast iron chips.
- Please use safe handling precautions including proper ventilation when machining reactive materials such as magnesium.
- For additional product application information, including performance optimization, please contact your Master Fluid Solutions' Authorized Distributor at https://www.masterfluids.com/vnm/en-vnm/distributors/index.php, your District Sales Manager, or email us at vietnam-info@masterfluids.com.

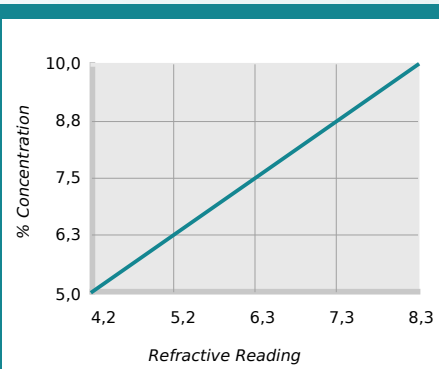
Physical Properties Typical Data

Color (Concentrate)	Yellow
Color (Working Solution)	White microemulsion
Odor (Concentrate)	Mild
Form (Concentrate)	Liquid
Flash Point (Concentrate) (ASTM D93-08)	> 120°C
pH (Typical Operating as Range)	9,3 - 10,3
Coolant Refractometer Factor	1,2

Recommended Metalworking Concentrations

Light Duty	5,0% - 6,5%
Moderate Duty	6,5% - 8,5%
Heavy Duty	8,5% - 10,0%
Design Concentration Range	5,0% - 10,0%

Concentration by % Brix



% Concentration = Refractive Reading x Refractive Factor
Coolant Refractometer Factor % Brix = 1,2

Health and Safety

Request SDS

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Mixing Instructions

- Recommended usage concentration in water: 5,0% - 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-liter pail

204-liter drum

1000-liter tote

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=vnm_en-vnm_MS690XT

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