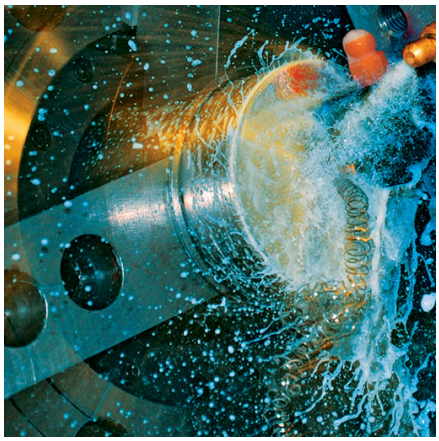
# TRIM™ MicroSol™ 651XT

## *High-lubricity, Multi-metal Semisynthetic*

TRIM MicroSol 651XT is a high-lubricity, low-foaming, multi-metal, semisynthetic microemulsion coolant. The formula offers the performance of a heavy-duty soluble oil with the cleanliness of a semisynthetic. It provides excellent cooling and mechanical lubricity, along with the machine friendly characteristics you expect from a premium TRIM coolant. An excellent alternative to soluble oils on high-silica aluminium alloys, MicroSol 651XT is compatible with a wide range of materials and operations.

## *MicroSol*



***For ultimate performance:***

*TRIM™ MicroSol™ semisynthetic microemulsion coolants deliver high-performance lubricity and ultimately lower costs. Achieve precision parts, exceptional tool life, extended sump life, assured regulatory compliance and greater profitability with the MicroSol product just right for your production.*

*Designed to meet the rigorous demands of the aerospace, medical, automotive and high-production precision parts manufacturing industries, there's a MicroSol to answer your concerns, ramp up your production, and boost your bottom line.*

### Choose MicroSol 651XT:

- High lubricity for extended tool life
- Low foaming for today's high-pressure, high-volume coolant delivery systems
- Excellent sump life without the use of tank side additives
- Provides superior corrosion inhibition on all ferrous and nonferrous metals
- Hard water stable
- Forms a tight microemulsion for low carryoff
- Compatible with a wide range of materials and operations
- Uses standard metalworking recycling and disposal techniques

### MicroSol 651XT especially for:

**Applications** — band sawing, boring, drilling, grinding, machining, reaming, thread forming and turning

**Metals** — aluminium, cast iron, composites, copper alloys, ferrous metals, nonferrous metals, plastics, stainless steels and steels

**Industries** — aerospace, agriculture, automotive, energy, general machining, job shop, naval and tool

**MicroSol 651XT is free of —** boron, formaldehyde releasers, nitrates, phenols and sulphurised EP additives

Master Fluid SOLUTIONS™

# TRIM™ MicroSol™ 651XT

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## Application Guidelines

- MicroSol 651XT performs well where traditional soluble oils may not cool sufficiently.
- Running at or above 7.0% offers the best sump life and corrosion inhibition.
- MicroSol 651XT is not recommended for use on very reactive metals such as magnesium.
- 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.

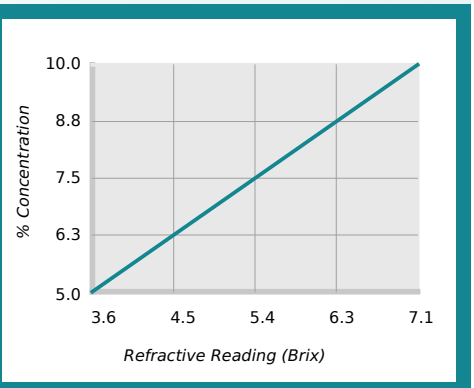
## Physical Properties Typical Data

| | |
|---|---|
| Colour (Concentrate) | Light yellow to amber |
| Colour (Working Solution) | Opaque |
| Odour (Concentrate) | Mild amine |
| Form (Concentrate) | Liquid |
| Flash Point (Concentrate) (EN ISO 2592) | > 140°C |
| pH (Concentrate as Range) | 9.3 - 9.9 |
| pH (Typical Operating as Range) | 9.0 - 9.4 |
| Coolant Refractometer Factor | 1.4 |
| Digital Titration Factor | 0.0300 |

## Recommended Metalworking Concentrations

| | |
|---|---|
| Light Duty | 5.0% - 7.0% |
| Moderate Duty | 7.0% - 9.0% |
| Heavy Duty | 9.0% - 10.0% |
| Design Concentration Range | 5.0% - 10.0% |

## Concentration by % Brix




% Concentration = Refractive Reading x Refractive Factor
Coolant Refractometer Factor % Brix = 1.4

## Health and Safety

Request SDS

# TRIM™ MicroSol™ 651XT

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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-litre pail

204-litre drum

1000-litre IBC



## 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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- Master STAGES™ and Whamex™ are trademarks of Master Chemical Corporation d/b/a Master Fluid Solutions.
- 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:

https://2trim.us/di/?i=eu_en_MS651XT

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