TRIM™ MicroSol™ 687NXT

Premium High-lube PRTR Microemulsion

TRIM MicroSol 687NXT is a translucent, premium highlube, PRTR compliant microemulsion. The product is low foaming in soft water but is also stable in hard water. The product is designed to machine difficult to machine metals, such as stainless steel and Inconel

Transportation Manufacturer Improves Tool and Coolant Life by 50% with TRIM® MicroSol® 687NXT



The customer is an end-to-end manufacturer of vehicles spanning the entire transportation sector, including automotives, railroad cars, naval ships, airplanes, and other heavy machinery. With more than 100-year history, the company has grown into a globally recognized leader of high-quality vehicles and transportation equipment, including turbochargers.



■ Choose MicroSol 687NXT:

- Keeps machines very clean while leaving a soft fluid film for ease of cleaning and reduced maintenance
- Excellent compatibility with a very wide range of material including stainless steel, nickel alloys, titanium, and aluminum alloys
- Greatly extends useful life without the need for tank side biocides or fungicides
- Low foaming for modern high-pressure, high-volume applications
- Uses standard metalworking recycling and disposal techniques
- Does not contain any chemical listed under Japan PRTR regulation
- Provides superior corrosion inhibition on all ferrous metals

MicroSol 687NXT especially for:

Applications — general purpose and high-pressure, high-volume

Metals — aluminum alloys, nickel alloys, plastics, steels, and titanium

Industries — aerospace, energy, and general industry

MicroSol 687NXT is free of — boron, chlorinated EP additives, formaldehyde releasers, mineral oils, nitrites, phenols, PRTR materials, secondary amines, and sulfurized EP additives



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Application Guidelines

- Running at or above 7.0% offers the best sump life and corrosion inhibition to protect machine tools and parts.
- Performs well where traditional soluble oils may not cool sufficiently.
- Not recommended for use for very reactive metals such as magnesium.
- For additional product application information, including performance optimization, please contact your Master Fluid Solutions' Authorized Distributor at https://www.masterfluids.com/ap/en-ap/distributors/index.php,

your District Sales Manager, or email us at apacinfo@masterfluids.com.

Physical Properties Typical Data

Color (Concentrate)

Color (Working Solution)

Odor (Concentrate)

Form (Concentrate)

PH (Concentrate as Range)

PH (Typical Operating as Range)

Coolant Refractometer Factor

Light Yellow to Amber

Yellow translucent

Mild

Liquid

9.5 - 9.9

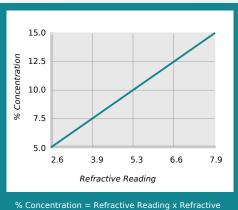
9.2 - 9.8

1.9

■ Recommended Metalworking Concentrations

Light Duty	5.0% - 6.5%
Moderate Duty	6.5% - 8.5%
Heavy Duty	8.5% - 15.0%
Design Concentration Range	5.0% - 15.0%

Concentration by % Brix



Concentration = Refractive Reading x Refractive
Factor
Coolant Refractometer Factor % Brix = 1.9

Health and Safety

Request SDS





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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.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

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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=ap_en-ap_MS687NXT



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