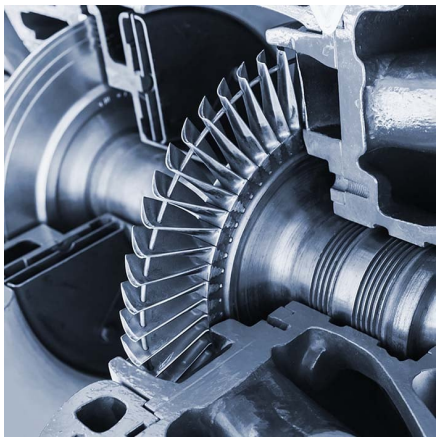
TRIM™ HyperSol™ 888NXT

neo-synthetic precision aerospace machining fluid

Experience ultimate versatility
HyperSol 888NXT's neo-synthetic technology masters the art of versatility. Providing exceptional performance on hard aerospace metals such as titanium and high-nickel alloys, stainless steels and Inconel®, it also offers the superior lubricity necessary for machining soft, gummy aluminum alloys. Delivering low foam, low odor and a long running lifespan while meeting the strictest environmental regulations, HyperSol 888NXT is redefining excellence in the coolant industry.
See your production soar to new heights with revolutionary TRIM HyperSol™ 888NXT!

U.S. Patent 11,396,708

Automotive and Aerospace Components Manufacturer Increases Tool Life by 22% with Master Fluid Solutions®



The UK arm of a global manufacturing company specializes in the manufacture of impellers for automotive turbochargers and aerospace turbojet engines. Fully automated 5-axis machining of the titanium, Inconel, and forged aluminum impellers requires high precision and very predictable tool wear. The manufacturer runs 32 machines on site, both roughing and finishing the impellers.

Aerospace Approvals

Company	Specification
Airbus	Conforms to AIMS 12-10-001
Dassault	No specification available
Rolls-Royce	CSS 130
SAFRAN	PCS-4001/4002, PR6300
USDA BioPreferred - Certified Biobased Product	No specification available

Choose HyperSol 888NXT:

- Exceptional performance on hard aerospace metals
- Superior lubricity for machining softer aluminum alloys
- Trouble-free production
- Safest, environmentally-friendly ingredients
- Long-running lifespan delivers high customer value
- Less scrap, low foam, and low odor

HyperSol 888NXT especially for:

Applications — drilling, face milling, grinding, milling, reaming, tapping, and turning

Materials — aluminum, Inconel®, nickel alloys, stainless steels, steel alloys, and titanium alloys

Industries — aerospace, medical, and oil & gas

HyperSol 888NXT is free of — boron, chlorine, DEA, formaldehyde releasers, mineral oils, silicone, and sulfurized EP additives

Master Fluid SOLUTIONS™

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Application Guidelines

- 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 apac-info@masterfluids.com.

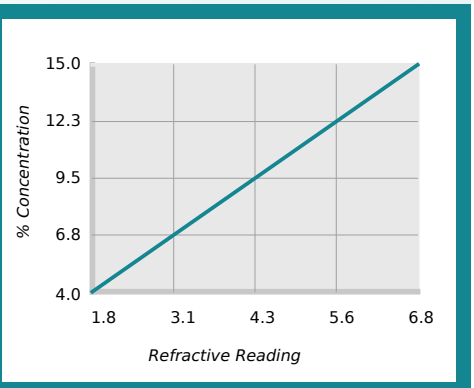
Physical Properties Typical Data

Color (Concentrate)	Golden yellow
Color (Working Solution)	White neo-synthetic
Odor (Concentrate)	Mild
Form (Concentrate)	Liquid
Flash Point (Concentrate) (ASTM D92-90)	> 100°C
pH (Typical Operating as Range)	8.8 - 9.6
Coolant Refractometer Factor	2.2
V.O.C. Content (ASTM E1868-10)	69 g/l

Recommended Metalworking Concentrations

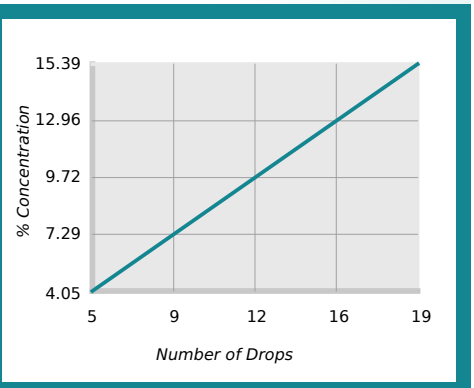
Light Duty	4.0% - 7.0%
Moderate Duty	7.0% - 9.0%
Heavy Duty	9.0% - 15.0%
Design Concentration Range	4.0% - 15.0%

Concentration by % Brix



% Concentration = Refractive Reading x Refractive Factor
Coolant Refractometer Factor % Brix = 2.2

Concentration by Titration



% Concentration = No. of Drops x Titration Factor
Titration Factor = 0.81

Health and Safety

Request SDS

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Mixing Instructions

- Recommended usage concentration in water: 4.0% - 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

1000-liter tote

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Additional Information

- Use Master STAGES™ Whamex XT™ 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.
- TRIM™ is a trademark of Master Chemical Corporation d/b/a Master Fluid Solutions.
- Master STAGES™ and Whamex XT™ 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=ap_en-ap_HS888NXT

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