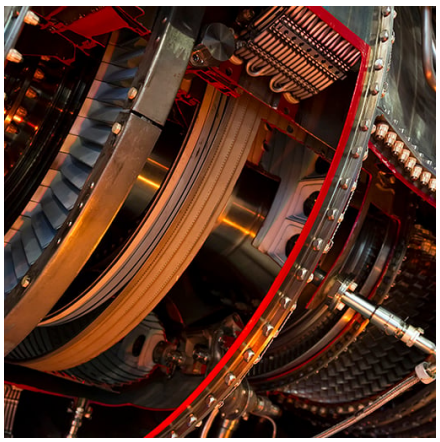
TRIM™ HyperSol™ 1500

Advanced Technology Aerospace Semisynthetic

TRIM HyperSol 1500 is an environmentally-friendly, esterbased, semisynthetic, microemulsion coolant formulated to fulfill modern aerospace requirements. It utilises the newest technology to provide long life and excellent protection of sensitive alloys. HyperSol 1500 improves on the proven performance of previous generations with a robust stability package using the most environmentally-safe ingredients.

neo-synthetic



Our neo-synthetics, a revolutionary new category of fluid formulated with leading edge technology, is changing the way the industry looks at coolants.

Neo-synthetics keep machines running clean using the most environmentally-safe ingredients satisfying strict environmental advocates, safety professionals and demanding production managers alike.

Aerospace Approvals

Company	Specification
Safran Group	PR6300

Choose HyperSol 1500:

- Meets the most stringent aerospace specifications
- Protects and prevents corrosion on sensitive alloys, including aerospace materials
- Dramatically extends useful life without the need for tank-side biocides or fungicides
- Low foaming for todays demanding high-pressure, high-volume applications
- Optimised combination of cooling and lubricity for titanium Inconel®, aluminium, steel and stainless steel machining applications
- Provides superior corrosion inhibition on all ferrous and nonferrous metals
- Keeps parts and machines very clean to reduce maintenance and production time

HyperSol 1500 especially for:

Applications — band sawing, cutting, drilling, grinding, high-pressure, high-volume, reaming, roll threading, surface milling, tapping, thread forming and turning

Metals — aluminium, brass, bronze, composites, copper, exotic alloys, glass, heat-treated steel, high-carbon steel, high-nickel alloys, Inconel®, nonferrous metals, stainless steels, steels and titanium

Industries — aerospace

HyperSol 1500 is free of — boron, chlorine, DCHA, formaldehyde releasers, MIPA, phenols and secondary amines

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Application Guidelines

- HyperSol 1500 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.
- HyperSol 1500 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.

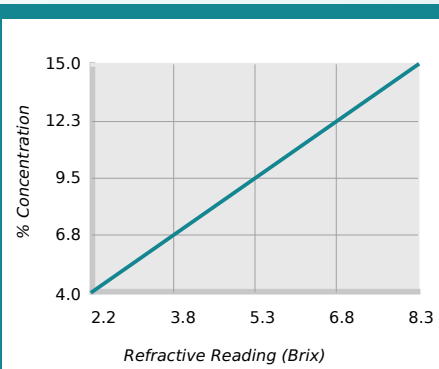
Physical Properties Typical Data

Colour (Concentrate)	Clear, light yellow
Colour (Working Solution)	Opaque
Odour (Concentrate)	Mild amine
Form (Concentrate)	Liquid
Flash Point (Concentrate) (EN ISO 2592)	> 120°C
pH (Concentrate as Range)	9.1 - 9.5
pH (Typical Operating as Range)	9.1 - 9.5
Coolant Refractometer Factor	1.8
Digital Titration Factor	0.0400

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 = 1.8

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-litre pail

204-litre drum

1000-litre IBC

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 registered 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=eu_en_HS1500

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