

# TECHNICAL DATA SHEET



Last updated: 14.08.2017

Product Codes: RCSCO

**RUNCOOL PREMIUM** is a bio-stable, semi-synthetic soluble cutting fluid concentrate especially suitable for use where the machine tool manufacturers recommend a coolant which contains more than 35% mineral oil.

## BENEFITS

- Compatible with most water qualities up to 400ppm calcium carbonate.
- Highly resistant to bacterial and fungal degradation.
- Excellent corrosion inhibition to ferrous metals.
- Good resistance to contact corrosion thus allowing work pieces to be stacked without staining occurring.
- Exceptional inhibition properties against staining of many non-ferrous metals, including copper and its alloys and aluminium and its alloys.
- Chlorine, formaldehyde, nitride and phenol free formulation for optimum operator acceptability.
- Extremely low foaming tendency.
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## APPLICATIONS

Recommended treat rate 3-8% in water, depending on severity of application. Minimum treat rate 3% in water

	Turning	Drilling / Milling	Sawing	Grinding	Honing	Lapping	Threading	Deep Hole Drilling	Broaching
Steel	✓	✓	✓	✓			✓		
Stainless steel	✓	✓	✓	✓			✓		
High Alloy Steel	✓	✓	✓	✓			✓		
Titanium									
Carbide									
Cast Iron	✓	✓	✓	✓			✓		
Copper Alloys	✓	✓	✓	✓			✓		
Aluminium Alloys < 7% Si	✓	✓	✓	✓			✓		
Aluminium Alloys > 7% Si									
Plastic	✓	✓	✓	✓			✓		

Water hardness should be checked to determine optimum running concentrations, please consult your MTO Lubricants sales engineer for further details.

## TYPICAL PROPERTIES

Appearance:	Green liquid, forms a clear, fluorescent emulsion in water
pH (4% solution)	9.2 – 9.4
IP 287 Breakpoint	1.5%
IP 125 Corrosion Test	1.0% (no rust)

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## FLUID MAINTENANCE

Refractive Index: - 1.32 = % / °Brix

Refractometry data for Runcool Premium	
<u>Refractometer reading</u>	<u>Actual Concentration</u>
0	0
1	1.32
2	2.67
3	4.07
4	5.39
5	6.86
6	8.23
7	9.62
8	10.99
9	12.42
10	13.85
11	15.17

## HEALTH & SAFETY, STORAGE AND DISPOSAL

**RUNCOOL PREMIUM** should be stored in dry conditions and protected from extreme temperatures: between 4°C and 35°C is the recommended storage temperatures.

**RUNCOOL PREMIUM** is unlikely to present any significant health or safety hazard when used as recommended by MTO Lubricants. Good standards of personal and industrial hygiene are to be maintained by the user (see Material Safety Data Sheets). In order to protect the environment, the product used should be safely disposed of by a licensed contractor. The packaging material should be handled by a recognized reconditioning firm.

Prior to using this product, consult the Material Safety Data Sheet for instructions regarding safe handling and environmental issues. The information contained herein is based on data available to us and is believed to be accurate.

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MTO Lubricants assumes no liability for any alleged ineffectiveness of the product or any injury or damage, direct or consequential, resulting from the use of this product unless injury or damage is solely attributable to negligence on the part of MTO Lubricants

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