

Last Updated: 14.08.2017

Product Code: IC 0667

**SARCOOL 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, nitrite and phenol free formulation for optimum operator acceptability.
- Extremely low foaming tendency.

## APPLICATION

(Recommended treat rate 3-8% in water, depending on severity of application. For most general purpose work, a treat rate of 4-6% is normally acceptable. 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 SAR Lubricants Sales Engineer for further details.

## TYPICAL PROPERTIES

Appearance	Green liquid, forms a clear, fluorescent emulsion in water
pH (4% emulsion)	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

<i><b>Refractometry data for Sarcool Premium</b></i>	
<i><b>Refractometer reading</b></i>	<i><b>Actual Concentration</b></i>
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

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

**SARCOOL PREMIUM** is unlikely to present any significant health or safety hazard when used as recommended by SAR 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 by a licensed contractor. The packaging material should be handled by a recognised 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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