

# SARCOOL TEC 8240

Last Updated: 09.01.2025  
Product Code: IC08240



SARCOOL TEC 8240 is a blend of new vegetable based technology and premium traditional lubricity additives to yield a very high performance, low management metal removal fluid. This premium emulsion product is robust enough to deliver extended useful life and avoid rancid odours normally associated with traditional emulsions. The optimised lubricity and extreme pressure package delivers exceptional surface finish and tool life on difficult to machine aluminium alloys, inconel, titanium, stainless and high tensile strength steels.

SARCOOL TEC 8240 is designed with outstanding lubricity characteristics ensuring it is suitable for use on a majority of ferrous and non-ferrous materials, without the requirement for traditional extreme pressure additives. An excellent choice for machine shops attempting to find one product to meet the challenges of the entire facility.

## **APPLICATION**

Applications — boring, centreless grinding, deep hole drilling, drilling, heavy duty machining centre work, high-pressure, high-volume, high-speed milling, high-speed turning, milling, reaming, roll threading, sawing, tapping, thread forming, thread rolling and turning.

Metals — aerospace aluminium alloys, brass, bronze, cast aluminium, composites, copper, exotic alloys, heat-treated steel, high tensile-strength steel, high-carbon steel, nickel alloys, plastics, stainless steels and titanium.

Industries — aerospace, automotive and energy

## **BENEFITS**

- Delivers exceptional lubricity.
- Very long sump life and low carry-off rates result in low operating cost.
- Low foam even in soft water areas and hard water tolerant.
- Extremely hard water tolerant, excellent low foam performance in soft water.
- Free of chlorine with non-sulphurised extreme pressure (EP) additives for arduous machining of all materials.
- Compatible with all materials excluding magnesium.
- Very economical in use with very low top up rates.
- Easily recycled or disposed of without special handling or equipment.
- Will run effectively for long periods without the need for costly additives.
- Free of boron, chlorine, copper, formaldehyde releasers, halogens, nitrites and phenols.

## **PERFORMANCE PROFILE**

Recommended Metalworking Concentrations

Light Duty	5.0% – 6.0%
Medium Duty	7.0% – 8.0%
Heavt Duty	8.0% – 10.0%
Design Concentration Range	3.0% – 10.0%

## **TYPICAL PROPERTIES**

Appearance (Concentrate)	Light brown liquid
Appearance (Emulsion)	Off White
pH (5% emulsion)	9.0 – 9.5
IP 287 Breakpoint	2.5%

### **SAR LUBRICANTS (SQUIRE A. RADCLIFFE & SONS LTD)**

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Mineral Oil Content	High
Refractometer Conversion Factor	1.0
Make Up Water Hardness	0 – 450 ppm

## **FLUID MAINTENANCE**

To check and maintain fluid concentration a refractometer is recommended, the resulting reading multiplied by the refractometer conversion factor will give the actual concentration strength. Maintaining a consistent concentration is paramount to prolonging the fluid sump life. To promote long service life, it is strongly advised that coolant systems are thoroughly sterilised with a System Cleaner prior to coolant changes (see Sarsol System Cleaner Technical Data Sheet for further information and guidelines).

Further tests for bacteria, fungus, pH and tramp oil contamination are available through our Cooltrak Fluid Management Service. This service offers guidance and assistance for users to comply with current HSE legislative requirements. Please contact us for further details.

## **HEALTH & SAFETY, STORAGE AND DISPOSAL**

Please refer to the Safety Data Sheet, freely available, for product handling and disposal advice. Please note that the SDS includes handling, storage, health and disposal information which should be passed on to anyone else who comes in contact with our product. Additional advice can also be obtained from your local representative.

NOTE: Read and understand all precautions on container labels before using this product.