

# SARCOOL SYN 7100

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Product Code: IF0408



SARCOOL SYN 7100 is a next generation synthetic high performance cutting and grinding fluid designed for cutting and grinding operations on ferrous and non-ferrous alloys. The formulation provides superior cooling and flushing characteristics together with excellent corrosion protection whilst minimising the build-up of 'sticky' residues. The product has excellent operator acceptance being boron, biocide formaldehyde and secondary amine free.

## **APPLICATION**

Sarcool SYN 7100 is an incredibly adaptable product and uses the latest water soluble polymer technology to give superb performance and surface finish in a range of light to medium duty cutting, grinding, pressing and forming operations. The product is extremely low foaming and works equally well in both hard and soft waters and on all ferrous, non-ferrous and FRP (Fibre reinforced plastic) materials.

## **BENEFITS**

- Mineral oil free solution of water-soluble polymers.
- Highly stable, even in the most hostile conditions.
- Designed for applications where good lubrication properties are required.
- Excellent high surface finish and tool life.
- All components of the lubricant will 'burn off' under bright annealing conditions.
- Suitable for all ferrous, non-ferrous and FRP (fibre reinforced plastic).
- High degree of cleanliness in use.
- Forms a stable solution even in the hardest of waters.
- Very low foaming characteristics.
- Boron, biocide, formaldehyde and secondary amine free.

## **PERFORMANCE PROFILE**

Recommended Metalworking Concentrations

Grinding	3.0% – 5.0%
Light – Moderate Duty	5.0% – 8.0%
Heavy Duty	9.0% – 12.0%
Design Concentration Range	3.0% – 12.0%

## **TYPICAL PROPERTIES**

Appearance (Concentrate)	Amber liquid
Appearance (Emulsion)	Clear solution
pH (5% solution)	9.0 – 9.2
IP 287 Breakpoint	2.5%
Mineral Oil Content	Nil
Refractometer Conversion Factor	2.5
Make Up Water Hardness	50 – 450 ppm

## **FLUID MAINTENANCE**

To check and maintain fluid concentration a refractometer is recommended, the resulting reading multiplied by the refractometer

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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.