

SARCOOL PREMIUM is a bio-stable, semi-synthetic soluble cutting fluid, a high lubricity micro-emulsion water mix cutting fluid offering truly universal multi-metal compatibility. An excellent choice for machine shops attempting to find one product to meet the challenges of the entire facility.

APPLICATION

Developed for its versatility across a wide range of materials and applications and therefore is suitable for use on most ferrous and non-ferrous materials including cast iron and carbon steel, through to aluminium alloys and stainless steel. Machining applications range from light duty grinding to high speed CNC milling, turning, drilling, tapping and threading operations.

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.

PERFORMANCE PROFILE

Recommended Metalworking Concentrations

| | |
|----------------------------|--------------|
| Grinding | 3.0% – 5.0% |
| Light – Moderate Duty | 5.0% – 7.0% |
| Heavy Duty | 8.0% – 10.0% |
| Design Concentration Range | 3.0% – 10.0% |

TYPICAL PROPERTIES

| | |
|---------------------------------|--------------------------|
| Appearance (Concentrate) | Green liquid |
| Appearance (Emulsion) | Green clear, fluorescent |
| pH (5% emulsion) | 9.2 – 9.4 |
| IP 287 Breakpoint | 1.5% |
| Mineral Oil Content | Medium |
| Refractometer Conversion Factor | 1.38 |
| 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 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.