# SARCOOL BMEP

Last Updated: 09.01.2025
Product Code: IC0138

SARCOOL BMEP is a high performance biostable cutting fluid with inherently low foam and is excellent in soft to hard water. It is suitable for use on a wide range of materials and applications and is a perfect choice for general machine shops where extended sump life can be achieved over conventional emulsion technology and is therefore very economical in use.

Formulated to incorporate the latest performance additives; the product exhibits excellent lubricity characteristics to provide both good tool life and surface finish.

## APPLICATION

The product provides unrivalled cutting performance and can be used in all types of arduous manufacturing applications. The performance additives ensure excellent surface finish on all types of aluminium and associated alloys as well as steels and titanium. The unique formulation prevents scum and soap formation associated with more reactive materials.

## BENEFITS

- Compatible with soft to hard water qualities up to 400 ppm 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, secondary amine, nitrite and phenol free formulation for optimum operator acceptability.
- Economical in use.

## PERFORMANCE PROFILE

Recommended Metalworking Concentrations

| | |
|---|---|
| Light Duty | 4.0% – 5.0% |
| Moderate Duty | 5.0% – 7.0% |
| Heavy Duty | 8.0% – 10.0% |
| Design Concentration Range | 3.0% – 10.0% |

## TYPICAL PROPERTIES

| | |
|---|---|
| Appearance (Concentrate) | Amber liquid |
| Appearance (Emulsion) | Milky beige |
| pH (4% emulsion) | 9.0 – 9.4 |
| IP 287 Breakpoint | 2.5% |
| Mineral Oil Content | High |
| Refractometer Conversion Factor | 1.1 |
| 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 DISPOSAAL

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.