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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.

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.

Formulated to incorporate the latest performance additives; the product exhibits excellent lubricity characteristics to provide both good tool life and surface finish. The product is highly resistant to bacteria formation and exhibits excellent corrosion resistance whilst maintaining machine cleanliness and operator acceptability.

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

APPLICATION

(Recommended treat rate 5-8% 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	✓	✓	✓				✓	✓	✓

Water hardness should be checked to determine optimum running concentrations, please consult your SAR Lubricants Sales Engineer for further details.

TYPICAL PROPERTIES

Appearance	Amber liquid, forms a milky beige emulsion in water
pH (4% emulsion)	9.2 - 9.4
IP 287 Breakpoint	2.5%
Load Bearing Capacity (Kg/mm ²)	2.06

FLUID MAINTENANCE

Refractive Index: - 1.10 = % / ° Brix

<u>Refractometry data for Sarcool BMEP</u>	
<u>Refractometer reading</u>	<u>Actual Concentration</u>
0	0
1	1.10
2	2.20
3	3.30
4	4.40
5	5.50
6	6.60
7	7.70
8	8.80
9	9.90
10	11.00
11	12.10

HEALTH & SAFETY, STORAGE AND DISPOSAL

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

SARCOOL BMEP 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 of 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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