

BONDERITE**BONDERITE L-MR 71-10 SKF**Known as Multan 71-10 SKF
October 2013**PRODUCT DESCRIPTION**

BONDERITE L-MR 71-10 SKF provides the following product characteristics:

Technology	Lubricants
Product Type	Machining & Grinding Fluids
Application	Emulsion for Machining & Grinding

BONDERITE L-MR 71-10 SKF is a semi-synthetic general purpose coolant, suitable for a wide range of machining operations and water hardnesses. Due to the selection of raw materials, BONDERITE L-MR 71-10 SKF is resistant against bacteria and fungi growth. Emulsions made from BONDERITE L-MR 71-10 SKF are nearly odourless. BONDERITE L-MR 71-10 SKF is free of EP-additives based on chlorine, sulphur or phosphorus.

Application Areas

BONDERITE L-MR 71-10 SKF is used for machining steel, cast iron. Also for aluminium alloys. For the make-up of emulsions in exact concentrations Henkel recommends the use of a dosing pump.

TECHNICAL DATAConcentrate:

Density, 20°C, g/cm ³ DIN 51757	~0.95
Viscosity, (20°C), mm ² /s DIN 53211	~210
Refractive index	~1.4658

Emulsion:

Appearance	semi transparent
pH-Value, (5%, DI-Water) DIN 51369	~9.2

Corrosion protection properties:

according to DIN 51360/1	RO/SO at 2.5 %
according to DIN 51360/2	0/0 at 2.5%

Emulsion stability:

according to DIN 51367	100 %
with 3 to 5 g/l NaCl added	100 %

Lubricants Reichert-Waage Steel:

5%, 1.5 kg, (mm ²)	23
8%, 1.5 kg, (mm ²)	21

Aluminium:

5 %, 0,1 kg, (mm ²)	18
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DIRECTION OF USE**Preliminary Statement**

Prior to use it is necessary to read the **Material Safety Data Sheet** for information about precautionary measures and safety recommendations. Also, for chemical products exempt from compulsory labeling, the relevant precautions should always be observed. Please also refer to the local safety instructions and contact Henkel for analytical support.

Concentration

Make up concentration: 5 % to 10 %
(depending on the machining operation and material)

Topping up concentration: 1 % to 4 %

Control of the emulsionRefractometer:

The reading in °Brix multiplied by the product factor 1.05 is equivalent to the concentration in percent.

Titration:

100 ml of the emulsion are titrated with 0.5 N HCl using an electronic pH-meter down to pH 5.5. The consumption of acid in ml multiplied by the product factor 0.3 is equivalent to the concentration in percent.

Splitting with acid (DIN 51368):

100 ml of the emulsion are heated up with concentrated hydrochloric acid. The reading in ml multiplied by the product factor 1.9 is equivalent to the concentration in percent.

Storage

Temperature, °C +5 to +40

Classification

Please refer to the corresponding **Material Safety Data Sheets** for details on:

Hazardous Information
Transport Regulations
Safety Regulations



ADDITIONAL INFORMATION

Disclaimer

Note:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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