

BONDERITE® L-MR B-637

February 2024

Product description

BONDERITE® L-MR B-637 provides the following product characteristics:

Technology	Lubricant
Product type	Machining lubricants
Application	Metal machining

BONDERITE® L-MR B-637 is a bio-resistant, semi-synthetic fluid designed for machining and grinding of ferrous and aluminum alloys. Its combination of lubricity additives and cooling ability allow it to work in all machining and grinding applications. This product has been designed where lubricity, bio-resistance, cleanliness and cooling are critical in aluminum, cast iron or steel applications.

Benefits:

- High lubricity making this product versatile in most machining and grinding applications.
- Bio-resistant technology which eliminates the need for tank-side additives and Monday morning odors.
- Excellent tramp oil rejection for easy removal and increased solution longevity.
- Less product consumption due to the superb wetting and emulsion properties.

Application areas:

Designed for use in with all varying water qualities (DI to 1200 ppm calcium) or process requirements that make foam difficult to control. An excellent semi-synthetic lubricant designed for low-foam and increased lubricity. Excellent for heavy duty ferrous or nonferrous machining.

Technical data

Appearance of concentrate	Clear to hazy, amber fluid
Appearance @ 5%	Clear to hazy
Recommended conc., %	6 - 10
pH of emulsion @ typical%	9.2 - 9.6
Density, lbs/gallon)	7.9
Refractometer factor	1.59
GM approved	GM LS2 Pass
GROB Mach Approved	Slideway oil pass
Biosan Bact Challenge	Bio/Myco Pass
Chlorine	None
Boron	None

Direction for 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.

Operating data:

Operation	Concentration
Grinding, %	6 to 7
General machining, %	6 to 8
Heavy machining, %	8 to 10

Refractometer procedure:

BONDERITE® L-MR B-637 solutions are easily checked using a standardized refractometer (see manufacturers operating instructions). Multiply the refractometer reading by 1.59 to obtain product concentration.

Titration procedure (pH method):

1. Place 15 ml sample of BONDERITE® L-MR B-637 into a 200 ml beaker flask.
2. Add deionized water to the 100 ml mark.
3. Titrate with 0.1 N Hydrochloric Acid (Titrating Solution 61) until a pH of 3.6 is achieved.
4. To determine the concentration, multiply the milliliters of HCL consumed, by 0.506.

Integrated equipment solutions:

Henkel offers a full range of equipment solutions, including refractometers, proportioners, oil coalescers, automated control systems, titration chemicals and bulk tanks. If additional information is required, please contact your local Henkel representative.

Classification:

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

Hazardous Information
Transport Regulations
Safety Regulations

Storage

Shipping conditions should be between 40 - 100 °F (5 - 40 °C), frost free, and should be stored in a location where it can be protected from freezing.

For more detail on this product or Henkel's capabilities contact your local account representative or Customer Service via the phone number below.



Additional information

Disclaimer

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