

BONDERITE® L-MR B 583H

Known as MULTAN B-583H
March 2024

Product description

BONDERITE® L-MR B 583H provides the following product characteristics:

Technology	Lubricant
Product type	Machining lubricants
Application	Metal machining

BONDERITE® L-MR B 583H is a bio-resistant, high oil content, 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 light to moderate 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 areas where moderate water quality (100 - 300 ppm hardness) or process requirements make foam difficult to control. Excellent for heavy duty ferrous or nonferrous machining.

Technical data

Appearance	Hazy, amber fluid
Appearance @ 5%	Translucent tan fluid
Typical concentration range, %	5 -10
pH of emulsion @ typical%	9.2 - 9.4
Density, lbs/gallon)	8.3
Chlorine	No
Boron	Yes
Refractometer factor	1.33
Biosan Bacteria Challenge (Biosan SOP# 14 - 1)	Pass

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 583H solutions are easily checked using a standardized refractometer (see manufacturers operating instructions). Multiply the refractometer reading by 1.33 to obtain product concentration.

Titration procedure (pH method):

1. Place 15 ml sample of BONDERITE® L-MR B 583H 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 0.504.

Classification:

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

Hazardous Information
Transport Regulations
Safety Regulations

Storage

Protect from freezing during transit and storage.

Additional information

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