

BONDERITE® L-MR 3105CP

Known as MULTAN 3105CP
January 2024

Product description

BONDERITE® L-MR 3105CP provides the following product characteristics:

Technology	Lubricant
Product type	Machining lubricants
Application	Metal machining

BONDERITE® L-MR 3105CP is a bio-resistant, oil rejecting, true solution synthetic fluid designed for machining and grinding of ferrous and most aluminum alloys. Its combination of lubricity additives, detergency, low foaming and cooling properties allow it to work in light to moderate heavy machining and grinding applications. This product has been designed where lubricity, bio- resistance, oil rejection, cleanliness and cooling are critical in cast iron, steel and aluminum 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 most water qualities or where process requirements make foam difficult to control. Excellent for light to moderate heavy duty ferrous and nonferrous machining and grinding.

Technical data

Appearance	Clear, yellow fluid
Appearance @ 5%	Translucent yellow fluid
Recommended conc., %	5 - 10
pH at 5 % (typical)	8.6 - 8.9
Density, lbs/gallon	8.7
Chlorine	No
Boron	No
Refractometer factor	1.8

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, %	5 to 7
General machining, %	6 to 8
Heavy machining, %	8 to 10

Refractometer procedure:

BONDERITE® L-MR 3105CP solutions are easily checked using a standardized refractometer (see manufacturers operating instructions). Multiply the refractometer reading by 1.8 to obtain product concentration.

Titration procedure (pH method):

1. Place 15 ml sample of BONDERITE® L-MR 3105CP 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 0.272.

Storage

Protect from freezing during transit and storage.

Classification:

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

- Transport Regulations**
- Hazardous Information**
- Safety Regulations**



Additional information

Disclaimer

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. Any liability in respect of the information in the Technical data sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

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