

# BONDERITE®

## BONDERITE L-MR B-637

Boron-free Machining & Grinding Fluid



### Features & Benefits

- Bio-resistant, boron-free, semi-synthetic fluid
- Designed for machining and grinding of ferrous and aluminum alloys across water conditions (0-1200 ppm hardness).
- Combines lubricity additives and cooling where lubricity, bio - resistant, cleanliness and cooling are critical
- Up to 6 times less defoamer required due to significant reduction in foam creation
- Stable emulsion after 7 days at 1800 ppm
- Full corrosion protection at standard concentrations of ~6 percent



### Sustainability Value

- Meets tightening regulations (boron-free)
- Reduces material use
- Low concentration of volatile organic compounds
- Increases bath lifetime
- Eliminates majority of SDS pictograms (excluding irritant)



**FREE**  
OF **BORON**

**FULL**  
OF **BENEFITS**

\*Annual

**CO<sub>2</sub>**  
emissions reduction  
of approximately

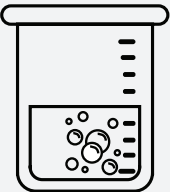
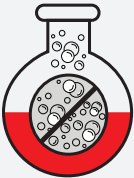
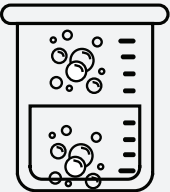
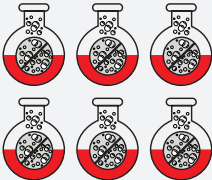
**11 %**  
compared to  
alternative market  
solution

\*Based on customer annual consumption of 5 totes, 20 totes, 50 drums and 100 drums of BONDERITE L-MR B-637 and an alternative Henkel metalworking solution.



## BONDERITE L-MR B-637 Boron-free Machining & Grinding Fluid

In addition to reducing material use, a decrease in foam generation increases cooling efficacy, reduces odor & improves bath & tooling life.

| Machining Lubricant  | FOAM CREATION  | DEFOAMER REQUIRED          | MATERIAL SAVINGS   |
|----------------------|--|----------------------------|--|
| Bonderite L-MR B-637 | <br>500 mL Foam   | 0.5 Defoamer with DI-Water | <br>6 times less defoamer used  |
| Previous Generation  | <br>1300 mL Foam | .3% Defoamer with DI-Water | <br>6 times more defoamer used |

### Technical Data

| Properties                | Typical Value              |
|---------------------------|----------------------------|
| Appearance                | Clear to hazy, amber fluid |
| Appearance @ 5%           | Clear to hazy              |
| Recommended concentration | 5-10%                      |
| pH of Emulsion (typical)  | 9.2-9.6                    |
| Density                   | 7.9 lbs/gallon             |
| Refractometer Factor      | 1.59                       |
| GROB Mach Approved        | Sideway oil pass           |
| Biosan Bact Challenge     | Bio/Myco pass              |
| Chlorine                  | None                       |
| Boron                     | None                       |

### Available Configurations

- Pails
- Drums
- Totes

[www.henkel-adhesives.com](http://www.henkel-adhesives.com)

GET IN CONTACT WITH US

**North America**  
Jonathan Schiebels  
jonathan.schiebels@henkel.com

**Europe**  
Martin Designer  
martin.designer@henkel.com

**Asia Pacific**  
Jeffrey Wei Zhang  
jeffrey.zhang@henkel.com

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