

# LOCTITE® LB 8031™

Known as LOCTITE® 8031™  
January 2015

## PRODUCT DESCRIPTION

LOCTITE® LB 8031™ provides the following product characteristics:

|                    |                              |
|--------------------|------------------------------|
| <b>Technology</b>  | Oil                          |
| Chemical Type      | Mineral oil and EP additives |
| Appearance         | Dark yellow                  |
| Odor               | Oily                         |
| Dispense Method    | Spray                        |
| Propellant         | Propane                      |
| <b>Cure</b>        | Not applicable               |
| <b>Application</b> | Lubrication                  |

LOCTITE® LB 8031™ is a multi-purpose cutting oil used to facilitate machining operations. This product permits greater cutting speed with improved surface finish and increased tool life. It is a lubricant for wear prevention during drilling, tapping and general machining operations. Suitable for use on steel and stainless steel. However it should not be used on aluminum, titanium and copper alloy surfaces where appearance is important. This product is typically used in applications with an operating range of -20 °C to +160 °C.

## TYPICAL PROPERTIES

|                                    |        |
|------------------------------------|--------|
| Density @ 20 °C, g/ml              | 0.84   |
| Viscosity @ 40°C, cSt              | 170    |
| Loading Test - 4 ball, ASTM D2596: |        |
| Weld Load, N                       | >8,000 |
| Weld Scar (@ 8,000 N), mm          | <4     |
| Wear, 1 hour / 400 N, mm           | 1      |
| Pressure @ 20°C, Bar               | 4.5    |
| Delivery Rate, g/s                 | 2.1    |
| Peak Temperature, °C               | 200    |
| Flash Point - See SDS              |        |

## GENERAL INFORMATION

**This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a lubricant for chlorine or other strong oxidizing materials.**

**For safe handling information on this product, consult the Safety Data Sheet (SDS).**

## Directions for use

1. Shake the product thoroughly before use.
2. Apply product to tool during cutting operation.

## Not for product specifications

The technical data contained herein are intended as reference only. Please contact your local quality department for assistance and recommendations on specifications for this product.

## Storage

The product is classified as **HIGHLY FLAMMABLE** and must be stored in an appropriate manner in compliance with relevant regulations. Do not store near oxidizing agents or combustible materials. Store product in the unopened container in a dry location. Storage information may also be indicated on the product container labelling

**Optimal Storage: 8 °C to 21 °C. Storage below 8 °C or greater than 28 °C can adversely affect product properties.**

Henkel cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Technical Service Center or Customer Service Representative

## Conversions

|                               |
|-------------------------------|
| (°C x 1.8) + 32 = °F          |
| kV/mm x 25.4 = V/mil          |
| mm / 25.4 = inches            |
| µm / 25.4 = mil               |
| N x 0.225 = lb                |
| N/mm x 5.71 = lb/in           |
| N/mm <sup>2</sup> x 145 = psi |
| MPa x 145 = psi               |
| N·m x 8.851 = lb·in           |
| N·m x 0.738 = lb·ft           |
| N·mm x 0.142 = oz·in          |
| mPa·s = cP                    |

## 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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