

LOCTITE® LB 8031™

January 2015

Product description

LOCTITE® LB 8031™ provides the following product characteristics:

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|--------------------|------------------------------|
| Technology | Oil |
| Chemical type | Mineral oil and EP additives |
| Appearance | Dark yellow |
| Odor | Oily |
| Dispense method | Spray |
| Propellant | Propane |
| Cure | Not applicable |
| Application | 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 sealant 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 the specifications of this product.

Storage

This activator is classified as HIGHLY FLAMMABLE and must be stored in an appropriate manner in compliance with relevant regulations. Do not store near oxidising agents or combustible materials. The product is light sensitive and accordingly, translucent containers should be kept in a dark place when not in use. Store product in the unopened container in a dry location. Storage information may also be indicated on the product container labelling.

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

Material removed from containers may be contaminated during use. Do not return product to the original container. 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 Henkel representative.

Conversions

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$
 $\text{kV/mm} \times 25.4 = \text{V/mil}$
 $\text{mm} / 25.4 = \text{inches}$
 $\mu\text{m} / 25.4 = \text{mil}$
 $\text{N} \times 0.225 = \text{lb}$
 $\text{N/mm} \times 5.71 = \text{lb/in}$
 $\text{N/mm}^2 \times 145 = \text{psi}$
 $\text{MPa} \times 145 = \text{psi}$
 $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$
 $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$
 $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$
 $\text{mPa}\cdot\text{s} = \text{cP}$

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Reference 1