



## **Topper High-Temp Red EP Lithium Grease**

**Topper High-Temp Red EP Lithium Grease** is a premium NLGI 2 multipurpose, lithium based and extreme pressure (EP) grease that provides outstanding high temperature performance and excellent lubrication over a wide temperature range and variety of services including heavy duty fleets, automotive, farm and industrial application.

### **FEATURES/ BENEFITS**

#### **Topper High-Temp Red EP Lithium Grease:**

- Provides excellent water resistance
- Provides Rust and Corrosion protection
- Provides excellent oxidation resistance
- Provides wear protection under extreme loads
- Resists softening due to heat
- Resists separation and pumps easily
- Lithium complex thickness gives dropping point in excess of 500 °F

### **RECOMMENDATIONS/SPECIFICATIONS**

*Meets requirements of NLGI GC-LB*

### **APPLICATIONS**

**Topper High-Temp Red EP Lithium Grease** is recommended for:

- Heavy Duty Fleet chassis lubrication, ball joints, and universal joints
- Boat Trailers
- Heavy Service industrial lubrication
- Ball and roller bearings
- Wheel bearings both disc and drums

### **SPECIAL HANDLING, NOTICES OR WARNINGS**

Use the same care and handling as for any petroleum product.



| <b>TOPPER HIGH-TEMP RED EP LITHIUM GREASE</b> |                           |                  |
|---|---------------------------|------------------|
| <b>Properties</b>                             | <b>Test Method ASTM-D</b> | <b>Data</b>      |
| <b>ALL APPLICATIONS</b>                       |                           |                  |
| Appearance                                    | Visual                    | Red              |
| Consistency                                   | Visual                    | Smooth, Adhesive |
| Soap Type                                     |                           | Lithium          |
| NLGI Grade                                    |                           | 2                |
| NLGI Classification                           |                           | GC-LB            |
| Worked Penetration                            | 217                       | 265-295          |
| Drop Point (°C/°F)                            | 2265                      | 270(500)         |
| Oil Separation                                | 1742                      | 1.2              |
| Base Oil Viscosity                            | 445                       |                  |
| cSt @ 40 °C                                   |                           | 214              |
| cSt @ 100 °C                                  |                           | 15.74            |
| Viscosity Index                               | 2270                      | 67               |
| <b>AUTOMOTIVE APPLICATIONS</b>                |                           |                  |
| Water Washout @ 175 °F                        | 1264                      | 4.1              |
| Leakage Tendencies, gloss                     | 4290                      | 1.4              |
| High Temp Life Hours                          | 3527                      | 100              |
| Fretting Protection, mg                       | 4170                      | 7.8              |
| Elastomer Change @ 100 °C                     | 4289                      |                  |
| Volume Change %                               |                           | 24               |
| Hardness Change %                             |                           | -9               |
| 4 Ball Wear Scar Diam., mm                    | 2266                      | 0.54             |
| 4 Ball Load wear Index, kgf                   | 2596                      | 50               |
| 4 Ball EP Weld kgf                            | 2596                      | 315              |
| Rust Test                                     | 1743                      | Pass             |
| Low Temperature Torque N-m                    | 4693                      | 13.0             |
| <b>INDUSTRIAL APPLICATIONS</b>                |                           |                  |
| Cu Corrosion                                  | 4048                      | Pass             |
| Oxidation, psi drop @ 100 hours               | 942                       | 10 max           |
| Timken OK Load lbs                            | 2509                      | 45               |

Typical test data are average values only.

Minor variations which do not affect product performance are to be expected during normal manufacturing

**M & J Sunshine, Corp.** 3200 NW 119<sup>TH</sup> MIAMI – FLORIDA

[www.mandjsunshine.com](http://www.mandjsunshine.com)