

OPAL HI-LOAD

Total Plant Grease

Description:

MOLYBOND® Opal High Load is a superior lithium complex grease containing molybdenum disulphide, designed for applications where a high-quality multi-purpose grease is required.

MOLYBOND® Opal High Load is provides improved lubrication for manufacturing and processing plants, earthmoving equipment and road transport and is an excellent general-purpose grease for open cut and underground mining.

MOLYBOND® Opal High Load is formulated to provide excellent load carrying capacity, protection against wear, and resistance to water wash-out.

Intended Use:

- Anti-friction bearings
- Plain bearings

Product Features:

- **Multi-purpose grease**
- **Excellent resistance to water washout**
- **Extremely high load carrying capacity**
- **Operating temperature range -30°C to +180°C**
- **Excellent anti wear properties**
- **MPI Approved C13 (All animal products except dairy)**

Typical Physical Properties:

| <u>TEST METHOD</u> | | |
|---|-----------------------|-------------------------|
| Appearance (concentrate) | Black Grease | |
| Lubricating Solids | Molybdenum Disulphide | |
| Thickener | Lithium | |
| NLGI Classification | 1½ to 2 | |
| Worked Penetration (mm X 10 ⁻¹) | 275-315 | ASTM D217 (IP50) |
| Base Fluid Type | Mineral Oil | |
| Base Oil Viscosity at 40°C (cst) | 180 | ASTM D445 |
| Drop Point (°C) | 200 | ASTM D-566 (IP132) |
| '4 Ball' | | |
| Weld Load (kg) | 550 | ASTM D2596 (IP239) |
| Wear Scar (mm) | 0.48 | ASTM D4172 at 40kg load |
| Timken 'OK' Load (kg) | 28 | ASTM D2509 (IP240) |
| Copper Corrosion Test | A1 | ASTM D130 (IP112) |
| Corrosion Resistance | PASS | ASTM D1743 |
| Water Washout Test (%) at 79°C | 4 | ASTM D1264 |
| Wheel Bearing Leakage (%max) | 1.6 | ASTM D1263 |
| Temperature Range (continuous) | -30°C to 180°C | |
| Max. Temperature for short periods | 200°C | |

Application Instructions:

Opal Hi-Load may be applied either manually or by automatic greasing systems designed to pump an NLGI No.2 grease.

Opal Hi-Load is compatible with most other soap-thickened greases. However, for best results bearings should be cleaned or purged of the previous lubricant prior to use.

Storage:

Store in dry conditions between 10°C and 30°C, away from sources of heat and naked flames. Protect from frost. When stored in original sealed containers, the minimum shelf life is four (4) years.

Warranty:

Molybond will replace any material found to be defective. Because the storage, handling and application of this material is beyond our control, we can accept no liability for the results obtained.

Disclaimer:

All information on this data sheet is based on laboratory testing and is not intended for design purposes. ITW Polymers & Fluids and Molybond makes no representations or warranties of any kind concerning this data.

Order Information:

450g cartridge RK353857
20kg pail RK353887

Health & Safety Information:

For Health & Safety information, refer to Safety Data Sheet available from ITW Polymers & Fluids upon request or available on our website www.molybond.com.au or www.molybond.co.nz