



Beacon EP 2 Moly

Premium Quality Multi-Purpose Grease

Product Description

Beacon EP 2 Moly is a premium quality multi-purpose, lithium-base NLGI No 2 grease recommended for general industrial applications. It contains an extreme-pressure additive for increased load-carrying ability. Additionally, it contains molybdenum disulfide (also known as moly and MoS₂), which enhances the anti-friction properties of the grease under boundary lubrication conditions. Beacon EP 2 Moly is dark gray and has a smooth, buttery texture. It is water resistant, has excellent oxidation and mechanical stability, and protects against corrosion.

Features and Benefits

Molybdenum disulfide offers particular advantages under boundary lubrication conditions, especially where sliding or vibration action pushes the grease away from the contacting surfaces. It provides a measure of protection against fretting and is therefore recommended where this phenomenon is a problem, as in splined shafts, pivot pins, fifth wheels, and other parts subjected to oscillating or sliding motion. Also, where relubrication is infrequent, molybdenum disulfide provides extended lubrication protection.

Beacon EP 2 Moly multi-purpose grease offers the following features and benefits:

- Wide range of industrial and automotive applications
- Fortified with extreme-pressure additives for heavy loads
- Contains molybdenum disulfide for extra protection in oscillating, sliding, or vibrating applications
- Excellent oxidation stability, water resistance, and corrosion protection

Applications

Beacon EP 2 Moly is suitable for plain bearings and gears. It also can be used in rolling contact bearings, but is not generally recommended for high-precision rolling contact bearings because of the possibility of molybdenum disulfide building up in the clearances. Beacon EP 2 Moly has applications in the construction, mining, and farming industries. In off-highway trucks and other vehicles, it provides excellent service in bucket pins, rack and pinion gearing, fifth wheels, steering gears, etc.

Typical Properties

| Beacon EP 2 Moly | |
|---|--------------------|
| NLGI Grade | 2 |
| Thickener Type | Lithium 12-OH |
| Color | Dark gray |
| Base Oil Viscosity, ASTM D 445 | |
| cSt @ 40°C | 150 |
| Texture | Smooth and Buttery |
| Penetration, ASTM D217 worked, 60x, mm/10 | 280 |





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| Dropping Point, ASTM D 2265, °C (°F) | 175 (347) |
| Oil separation test, ASTM D 1742, % | 3 |
| Wheel bearing leakage, ASTM D 1263 104°C (220°F), g | 0 |
| Timken OK Load, ASTM D 2509, kg (lb) | 18 (40) |
| Water Washout, ASTM D 1264 @ 79°C, % | 6 |
| Corrosion prevention test, ASTM D 1743 | Pass |
| Molybdenum disulfide, % | 3 |

Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and when the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

As in the case of all greases, if there is a puncture wound with grease contamination, or an injury where grease is injected into body tissue, such as a grease gun injury," prompt medical assistance should be obtained.

Additional important health and safety information on this product can be found in the Material Safety Data Sheet which is available online at www.exxon.com or by contacting Exxon Branded Lubricants, ExxonMobil Lubricants and Petroleum Specialties Company, North America Technical Services - MSDS, 3225 Gallows Road, Fairfax, VA 22037.

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