

# Puma Heavy Duty Grease EP2

## Extreme Pressure Grease

Puma Heavy Duty Grease EP2 is a high performance multi-purpose grease intended for a large variety of applications. It is based on a blend of high viscosity, mineral oils, a lithium complex soap thickener, specially selected lead free extreme pressure additives, rust and oxidation inhibitors plus a tackiness agent.

- ✓ Extreme Pressure
- ✓ High Temperature
- ✓ Oxidation Resistance

## Designed to Perform

### Anti-Wear and EP Performance

Important for reducing wear rates and achieving a high load-carrying capability even under conditions of high sliding and moderate shock loading, thus extending the equipment life.

### Superior Resistance to Water Wash-out

Assures correct lubrication, even under the most severe water exposure conditions.

### Chemical Stability

It has great physical and chemical stability which ensures that these greases remain unaltered even after long exposure to high mechanical loads and thermal stresses, while its outstanding oxidation resistance inhibits deterioration both during storage and use.

### High Dropping Point

It's very high dropping point makes it particularly suitable for service at the temperatures generated during repeated and prolonged braking in the hubs of vehicles fitted with disc brakes, even when poorly cooled.

### Rust Protection

It ensures effective rust-protection even where the most delicate metals are concerned, and it adheres extremely well to metal surfaces resisting displacement by vibrations.

### Water Resistance

Puma Heavy Duty Grease EP2 is water-resistant and can be used in moist conditions and in contact with water, while good pump-ability facilitates dispensing even at low temperatures.

### Anti-corrosion & Anti-rust Properties

These inhibit the oxidation of internal and external surfaces therefore preventing the breakdown of the grease.

### Lubricating Properties

It provides extremely good lubrication and wear protection for roller bearings. Its high oxidation resistance inhibits any tendency for the grease to alter during storage and while in use.

### Highly Adhesive

Being highly adhesive and cohesive Puma Heavy Duty Grease EP2 resists displacement from lubricated parts by dripping or run-out due to gravity action, centrifugal force and vibration. The adhesive properties of this product guarantee proper lubrication under difficult conditions.

### Operating Temperature Range

The recommended temperature range is from -25°C to 175°C however, it may be used intermittently up to 200°C with the lubrication frequency to be increased accordingly.

## Applications

- General industrial applications
- Chassis Lubrication
- Commercial transport wheel bearings
- Agricultural equipment
- Marine applications
- Conveyors Pulleys
- Plain and Roller Bearing

## Typical Physical Characteristics

| Test   | Temp  | Units  | ASTM Method | Typical Result  |
|--|-------|--------|-------------|-----------------|
| NLGI   | -     | -      | -           | 2               |
| Soap Type                                    | -     | -      | -           | Lithium Complex |
| Colour/Appearance                            | -     | -      | -           | Blue/Tacky      |
| Dropping Point                               | -     | °C     | D.2265      | 260+            |
| Roll Stability, Penetration Change           | -     | %      | D.1831      | 10              |
| Water Washout, Loss                          | 80°C  | %      | D.1264      | 3.5             |
| Oxidation Stability: Pressure Drop at 100hr  | -     | kPa    | D.942       | 15              |
| Oxidation Stability: Pressure Drop at 500hr  | -     | kPa    | D.942       | 70              |
| Lubrication Life, Bearing No. 204: 10,000rpm | 163°C | h ours | D.3336      | 125             |
| Rust Prevention Rating                       | -     |        | D.1743      | Pass            |
| Timken, OK Load                              | -     | kg     | D.2509      | 30              |
| 4-ball Weld Point                            | -     | kg/f   | D.2596      | 450             |
| 4-ball Wear Scar                             | -     | mm     | D.2266      | 0.48            |
| Mineral Oil Viscosity                        | 40°C  | cSt    | D.445       | 320             |

*These characteristics are typical of current product methods whilst future production will conform to Puma Lubricants specifications, variations in these physical characteristics may occur.*

### Protect the Environment

- Take used oil to an authorized collection point. Do not discharge used or new oil into drains, soil or water.

### Additional Information

- Technical advice on any applications not covered here may be obtained from your Puma Energy Representative.

### Health & Safety Environment

- This product is unlikely to present any significant health and safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.
- Avoid contact with eyes and skin, use proper impervious gloves with used oil. After skin contact, wash immediately with soap and water. Guidance on health and safety is available on the appropriate Safety Data Sheet (SDS) which can be obtained from [sds.pumaenergy.com.au](https://sds.pumaenergy.com.au).