# PUMA Lithcom EP220-2

is a  Puma Lithcom EP220-2 is an extra high performance, high temperature grease, intended for a large variety of heavy-duty applications. It is based on a blend of oils of high viscosity index, a lithium complex soap thickener, extreme pressure additives, rust and oxidation inhibitors plus a tackiness agent.

- ✓ Extreme Pressure
- ✓ Chemically Stable
- ✓ Highly Adhesive

## Design to perform

**PUMA Lithcom EP220-2 Anti-Wear and EP**

**Performance** - Excellent anti-wear and EP performance reduces wear rates. In addition, the grease has a high load-carrying capability even under conditions of high sliding and moderate shock loading, thus extending the equipment life.

**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 Lithcom EP220-2 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 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 Lithcom EP220-2 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℃ to 175℃, however,  it may be used intermittently up to 200℃ with the lubrica tion frequency to be increased accordingly.

## Applications:

**Puma Lithcom EP220-2** is excellent for use in applications where high thermal resistance is required. These include automotive, industrial, mining, earthmoving and marine applications such as slow moving, heavy duty bearings operating at high temperature and under severe loads, low speed wheel bearings subjected to high temperatures and loads caused by repeated and high speed braking in particular on disc brakes.

**Puma Lithcom EP220-2** may be used where either soap based or clay based greases are recommended, particularly if rationalisation of grease types is required

## Puma Lithcom EP220-2

Meets the requirements of the following specifications:

ASTM D4950
SAE J310
DIN 51825

SAE J2695
ISO 6743-9
NLGI category GC-LB

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## Typical Physical Characteristics

| Property | Units | Test Method | Typical Results |
|---|---|---|---|
| NLGI | | | 2 |
| Soap type | | - | Lithium Complex |
| Dropping point | °C | D.2265 | 281 |
| Roll stability, Penetration change | % | D.1831 | 10 |
| Oxidation stability: Pressure drop at 100 hr | kPa | D.942 | 15 |
| Rust Prevention Rating | | D.1743 | Pass |
| Timken, OK Load | lbs | D.2509 | 70 |
| Mineral Oil viscosity@40°C | cSt | D.445 | 220 |
| Oil Separation | % | D6184 | 0.5 |
| Colour | | | Light Brown |

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

### 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 pumaenergypng.datasheetdownloads.com, sds.pumaenergy.com.au

### 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.

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