



## **Energrease LC2**

High Temperature Grease

## **Product Data**

### **Description**

Energrease LC2 is a multipurpose high performance grease based on a mineral oil and lithium complex soap. It is formulated to provide excellent high temperature lubrication performance and is also suitable for low temperature use down to -30°C nominal.

Energrease LC2 is water resistant, possesses extreme pressure load-carrying properties and contains additives selected to enhance resistance to oxidation, corrosion and wear.

### **Applications**

Energrease LC2 is formulated for use in grease lubricated plain or rolling bearings operating at temperatures from -30°C to 150°C (continuous rating).

It may also be used for short periods at temperatures of up to 180°C in bearings designed to operate under such conditions. In these cases, the frequency of re-lubrication should be increased and operators should contact the equipment or bearing suppliers for guidance.

Examples of applications include most types of automotive and industrial machinery, electric motors and machine tools as well as applications involving higher temperatures – such as automotive wheel bearings, paper making machinery or the bearings of ventilation machinery and oven fans. Energrease LC2 is also recommended for bearing lubrication under highly loaded and vibratory conditions – such as in steel mills, railway axle-boxes, road vehicles, mobile plant and construction equipment.

The long service life potential of Energrease LC2 at temperatures over 100°C makes it ideally suited to machines in which poor accessibility makes frequent re-greasing difficult.

### **Benefits**

- Wide range of applications
- High operating temperature capability
- Extreme pressure and anti-wear additive protection.
- Improved equipment lubrication protection.
- Very good pumpability for NLGI 2 grease
- Excellent stability and service life
- Effective anti-corrosion properties
- Water resistant
- Good adhesion to metal surfaces.



## Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

## Health & Safety Recommendations

Health, safety and environmental information is provided for this product in the Materials Safety Data Sheet, which can be obtained by contacting the BP Lubricants and Fuels Technical Helpline on 1300 139 700, BP Australia or its subsidiaries. This gives details of potential hazards, precautions and First Aid measures, together with environmental effects and disposal of used products. BP Australia will not accept liability if the product is used other than in the manner or with the precautions or for the purpose/s specified. Before the product is used other than as directed, advice should be obtained from the local BP office or BP Lubricants and Fuels Technical Helpline 1300 139 700.

## Typical characteristics

Test	Method	Unit	Typical Value
Appearance	Visual		Red
Texture			Smooth
NLGI Consistency			2
Thickener/Soap			Lithium complex
Drop Point	ASTM D2265	°C	>260
Penetration @ 25 °C	ASTM D217		
60 strokes		dmm	280
Change 60/10		dmm	+28
Oil separation (168 hr @ 40 °C)	IP 121	%mass	2.9
Water Washout	ASTM D1264	%mass	3.5
EMCOR Rust Prevention	IP 220	Rating	0
Timken OK Load	ASTM D2509	kg	22.3
Four Ball Weld Load	ASTM D2266	kg	270
Four Ball Weld Scar	ASTM D2266	mm	0.58
Base Oil Viscosity @ 40 °C	ASTM D445	cSt	180

*The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.*

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**BP Australia Pty Ltd**  
**ABN 53 004 085 616**  
**Lubes & Fuels Tech Helpline: 1300 139 700**  
**Fax (Australia): 03 9268 4394**

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