



Energrease LC2-M

Molybdenum Disulphide Fortified Lithium Grease

Product Data

Description

A lithium complex grease fortified with molybdenum disulphide. Energrease LC2-M also contains selected additives to enhance resistance to oxidation and corrosion, as well as extreme pressure (EP) anti-wear technology to extend equipment life under severe duty.

Applications

Energrease LC2-M is suitable for a variety of mining industrial and automotive applications, particularly when ambient conditions and duty are severe. In equipment designed to operate at such temperatures, this grease is suitable for use at elevated operating temperatures, up to 150°C, or for short periods 180°C. At elevated temperatures it may be necessary to increase the frequency of grease replenishment.

This versatile grease provides superior performance over a prolonged service life, in a wide range of critical tasks, including:

- Chassis points, bucket pins and heavily loaded plain bearings in shovel loaders, dozers, tippers and other mining and industrial machinery or equipment.
- Jackhammers, rock breakers, jumbos and other boom drilling equipment.
- Dredges and other marine applications where resistance to corrosion and water penetration, as well as anti-wear performance, are essential for prolonged equipment service life.

Benefits

- Incorporates molybdenum disulphide for superior lubrication in slow-moving and heavily loaded equipment.
- High thermal and mechanical stability.
- Resistant to wash-out by water.
- Smooth and pumpable, making it suitable for dispensing through centralised lubrication systems such as those found on large equipment.
- Wide temperature operating range (-30°C to 150°C).
- Very adhesive to metal surfaces.
- Compatible with lithium and lithium complex greases.
- Good shear-stability and resistance to vibration.
- Extreme pressure and anti-wear performance.
- Corrosion resistance.



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		Purple/grey
Texture			Smooth
NLGI Consistency			2
Thickener/Soap			Lithium complex
Drop Point	ASTM D2265	°C	>260
Penetration @ 25 °C	ASTM D217		
60 strokes		dmm	275
Worked Stability @ 25 °C	ASTM D217	dmm	+25
Penetration change			
60/100,000 Strokes			
Roll Stability	ASDM D1831	dmm	+18
Wheel Bearing Leakage	ASTM D1263	g	3.2
Copper corrosion	ASTM D4048	Rating	1b
Oil separation (168 hr @ 40 °C)	IP 121	%mass	3.0
Water Spray Off	ASTM D4049	%wt	78
EMCOR Rust Prevention	IP 220	Rating	1,1
Timken OK Load	ASTM D2509	kg	28
Four Ball Weld Load	ASTM D2596	kg	390
Four Ball Weld Scar	ASTM D2266	mm	0.80
Base Oil Viscosity @ 40 °C	ASTM D445	cSt	180
Oxidation Stability	ASTM D942	psi	3.0

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

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