Technical Data Sheet



Energrease LC 2

High Performance Lithium Complex Grease

Description

Energrease LC 2 is a multi-purpose, high-performance grease, based on mineral oil and a lithium-complex soap and containing a red dye to differentiate from conventional soap type lithium greases. It is formulated to provide excellent high-temperature lubrication performance. Energrease LC 2 has EP load-carrying properties and contains additives selected to enhance resistance to oxidation, corrosion and wear.

Application

Energrease LC 2 is formulated for use in grease-lubricated plain or rolling bearings operating at temperatures from -30 to 160°C (continuous rating), peaking up to 180°C. In such cases, the frequency of re-lubrication should be increased. Energrease LC 2 is primarily recommended for high temperature applications such as papermaking machinery or bearings of ventilation machinery and oven fans as well as general applications on industrial machinery, electric motors and machine tools. Energrease LC 2 is also suited for bearing lubrication under highly loaded and vibratory conditions – such as in steel mills, railway axle-boxes and construction equipment. The long service-life potential of Energrease LC 2 at temperatures over 100°C makes it ideally suited to machines in which poor accessibility makes frequent degreasing difficult.

Main Performance Features

- High operating temperature capability.
- Suitable for highly loaded and vibratory working conditions.
- Maximum equipment protection.
- · Long service life.
- Excellent anti-corrosion properties.
- Very adhesive to surfaces.

Packaging and Storage

Supplied in packs of approximately 18 kg pails and 180 kg drums. Note the actual pack size may vary according to country of supply.

Where outdoor storage is unavoidable, packs should be covered.

Ensure packs are tightly resealed after use and that they have not been contaminated in any way.

Typical Characteristics

	Unit	Test Method	Energrease LC 2
Thickener NLGI Number Texture Colour Drop Point Base oil viscosity @ 40 °C Worked Penetration, 25°C / 60 strokes Working Stability, 60°C / 100,000 strokes Oil Separation 168 h / 40 °C	°C mm²/s 0.1 mm 0.1 mm % wt	ISO 2137 / ASTM D217 Visual Visual ASTM D566 ISO 3104 / ASTM D446 ISO 2137 / ASTM D217 ASTM D217 IP 121 / DIN 51 817	Lithium Complex 2 Smooth Red >240 150 265-295 +35 3.5
Anti -Rust Performance (Emcor)	70 VVI	IP 220 / DIN 51802	0/1
Oxidation Stability, 100h / 100 °C Copper Corrosion, 24 h / 120 °C Water resistance, 3 h/90 °C Water Wash Out, 1 h / 38 °C	bar	ASTM D942 / DIN 51808 DIN 51811 / ASTM D1261 DIN 51 807/1 / ASTM D1264 DIN 51807/2	0.1 1 1
Timken OK Load	lbs	ASTM D2509	45
Four Ball EP Test, Welding Load SKF-R2F-test rig, Cond 'B', 160 °C	N	ASTM D2783 / DIN 51350/4 DIN 51 806	2800 Pass
FAG FE9 Test, Expected service life @ 150 °C 10% failure rate 50% failure rate	h h	DIN 51821 DIN 51821	80 >100
Flow Pressure, -20 °C +20 °C DIN Classification	mbar mbar	DIN 51805 DIN 51805 DIN 51502 / 51826	1,350 100 KP2P

The above figures are typical of those obtained with normal production tolerances, and do not constitute a specification. Note 1 mm² s¹ = 1 cSt.

General Advice

Further information on all BP Marine lubricants is available from any BP Marine office or from:

BP Marine www.bpmarine.com

Technology Centre Whitchurch Hill Pangbourne Reading RG8 7QR United Kingdom

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