

Energrease LS-EP Range

Multipurpose EP Lithium Based Greases

Description

The Energrease LS-EP range are high quality lithium based greases incorporating solvent-refined oils, an anti-wear additive, oxidation and corrosion inhibitors, which help to ensure long service life of the grease and a high level of protection for metal surfaces. All grades are water-resistant, and have multi-purpose capability.

Application

The Energrease LS-EP greases are intended for use in plain and roller bearings of all kinds of machinery - including electric motors, machine tools, textile, paper-making, plastic processing and woodworking machines as well as construction equipment. They are recommended for use where surfaces are subjected to heavy or shock loading. The operating temperatures are between -25°C and 140 °C. The Energrease LS-EP greases meet the British Timken requirements for use in steel mills.

Main Performance Features

- Suitable for highly loaded applications.
- Multi-purpose capability.
- Long service life.
- Resistance to water wash off.
- Good pumpability.
- Good shear stability and vibration resistance.

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	LS-EP 0	LS-EP 1	LS-EP 2	LS-EP 3	
Thickener type	-		Li soap	Li soap	Li soap	Li soap	
NLGI Classification	-	ISO 2137 / ASTM D217	0	1	2	3	
Texture	-	Visual	Smooth	Smooth	Smooth	Smooth	
Colour	-	Visual	Brown	Brown	Brown	Brown	
Drop Point	°C	ASTM D566	180	190	195	195	
Base oil viscosity	@ 40 °C	mm ² /s	ISO 3104 / ASTM D445	180	180	180	180
	@ 100 °C	mm ² /s	ISO 3104 / ASTM D445	-	-	16	-
Worked Penetration, 25°C / 60 strokes	0.1mm	ISO 2137 / ASTM D217	355-385	310-340	265-295	220-250	
Oil Separation, 168 h / 40 °C	% wt	IP 121 / DIN 51817	-	8	4	1	
Rust Prevention (Distilled Water)		IP 220 / DIN 51802	0/0	0/0	0/0	0/0	
Timken OK Load / Wear	lbs / Mg	ASTM D2509	- / -	- / -	45 / <5	- / -	
4-Ball Weld Load	N	ASTM D2783	2600	2600	2600	2600	
Flow Pressure/ -25°C	hPa	DIN 51805	<1000	1000	1200	>2000	
DIN Classification	-	DIN 51502/51826	-	K2K-25	K3K-20	-	

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