

Energrease LS Range

Lithium Based Grease

Description

The Energrease LS greases are lithium-based incorporating solvent-refined oils. They contain oxidation and corrosion inhibitors, which help to ensure long service life and a high level of protection for metal surfaces. These greases are water-resistant.

Application

The Energrease LS grades are mainly intended for use in plain and roller bearings of all types and in all kinds of machinery under normal load conditions and within an operating temperature range -25 °C to +130 °C. Energrease LS 3 is suitable for severe vibration conditions. Energrease LS 0 may be used in central lubrication systems as well as a lubricant in gears.

Main Performance Features

- Long Service life.
- Water resistant.
- Good pumpability.
- Vibration resistant.

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 0	LS 2	LS 3
Thickener type	-		Li soap	Li soap	Li soap
NLGI Classification	-	ISO 2137 / ASTM D217	0	2	3
Texture	-	Visual	smooth	smooth	smooth
Colour	-	Visual	Light Brown	Light Brown	Light Brown
Drop Point	°C	ASTM D566	170	195	195
Base oil viscosity @ 40 °C	mm ² /s	ISO 3105 / ASTM D446	100	110	110
Worked Penetration, 25°C / 60 strokes	0.1mm	ISO 2137 / ASTM D217	355 - 385	265 - 295	220 - 250
Working Stability, 60 °C / 100000 strokes	0.1mm	SO 2137 / ASTM D217	+30	+40	+45
Oil Separation, 168 h / 40 °C	% wt	IP 121 / DIN 51817	< 10*	3	1
Anti-Rust Performance (Emcor)		IP 220 / DIN 51802	0/0	0/0	0/0
Copper-Corrosion, 24 h / 120 °C		DIN 51811 / ASTM D1261	1-120	1-120	1-120
Oxidation Stability, 100 h/100 °C	bar	ASTM D942 / DIN 51808	0.2	0.2	0.2
Water resistance, 3h	-	DIN 51 807/1	1-90	1-90	1-90
SKF-R2F-test rig, Running Cond. 'B', 130 °C	-	DIN 51806	-	Pass	Pass
Flow pressure: -20 °C	mbar	DIN 51805	700	1000	1400
DIN Classification	-	DIN 51502/51826		K2K-25	K3K-20

*without weight

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

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