Technical Data Sheet

bp marine

Energrease L21 M

Automotive Grease with MoS2

Description

Energrease L21 M is a lithium-based grease containing molybdenum disulphide, corrosion inhibitors and anti-oxidant additives.

Application

Energrease L21 M is intended for general lubrication of vehicles and off-highway equipment, in particular for both slow-moving and heavily loaded equipment and machinery that operates with a reciprocating motion. Operating temperatures range from -25 °C to 130 °C. Energrease L21 M meets the requirements of Caterpillar for a MoS2 grease and those of the Ford specification ESA M1C 71A/75A.

Main Performance Features

- Good load carrying capability.
- Corrosion resistance.
- Resistance to water wash off.
- 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.

Additional Information

In order to minimise potential incompatibilities when converting to new grease, all previous lubricant should be removed as much as possible prior to operation. During initial operation, re-lubrication intervals should be monitored closely to ensure all previous lubricant is purged.

Typical Characteristics

	Unit	Test Method	Energrease L21 M
Thickener			Lithium
NLGI Number		ISO 2137 / ASTM D217	2
Texture		Visual	Smooth
Colour		Visual	Black
Drop Point	°C	ISO 2176 / ASTM D566	190
Base oil viscosity @ 40 °C	mm^2/s	ISO 3105 / ASTM D445	185
Worked Penetration			
25°C / 60 strokes	0.1 mm	ISO 2137 / ASTM D217	265-295
Oil Separation 168 h / 40 °C	% wt	IP 121 / DIN 51 817	4.0
Anti -Rust Performance (Emcor)		IP 220 / DIN 51802	1/1
Copper Corrosion, 24h / 100°C		DIN 51811	1a
Timken OK Load	lbs	ASTM D2509	40
4-ball Weld Load	N	ASTM D2596	2,500
SKF-R2F-test rig, Cond 'B', 120 °C		DIN 51 806	Pass
Flow Pressure			
@ +20 °C	°C	DIN 51805	100
@ 0 °C	°C	DIN 51805	150
@ -20 °C	°C	DIN 51805	1,150
@ -25 °C	°C	DIN 51805	2,000

The above figures are typical of those obtained with normal production tolerances, and do not constitute a specification. Note 1 $mm^2 s^{-1}$ = 1 cSt.

General Advice

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

BP Marine
Technology Centre
Whitchurch Hill
Pangbourne
Reading RG8 7QR
United Kingdom

www.bpmarine.com

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