

STANDARD HEAVY DUTY EP2 GREASE

TECHNICAL DATA SHEET

V.01/2024

886



Multi purpose heavy duty grease for applications operating at medium/slow speeds with heavy loads in wet/dusty/dry conditions.

DESCRIPTION

STANDARD HEAVY DUTY EP2 GREASE is manufactured using highly refined mineral base oils which are carefully selected and then fortified with synthetic polymers, producing a highly shear stable foundation for the grease. This base oil foundation allows the product to perform in applications where extreme loads are typical.

STANDARD HEAVY DUTY EP2 GREASE is manufactured using a lithium calcium thickener resulting in a buttery appearance with excellent shear stability characteristics. In addition, this type of thickener is easily pumped, has a moderate resistance to heat and exhibits excellent water resistance. The optimal operating conditions for this grease in terms of temperature, is from -30 to 130 degrees celcius, however short periods of elevated temperatures can be tolerated without severe damage to the product.

STANDARD HEAVY DUTY EP2 GREASE is manufactured to a NLGI 2 grade resulting in a grease of medium to soft consistency. The product contains a blend of synthetic tackifiers, increasing it's ability to resist water and adherence with all surfaces.

STANDARD HEAVY DUTY EP2 GREASE is tan in colour and whose formulation includes a full treat of extreme pressure (EP) and corrosion preventative additives enabling the grease to meet or exceed internationally recognised performance standards.

KEY ADVANTAGES

Thermal stability	Very good thermal stability allowing the grease to perform for short periods of time under extreme temperatures, regaining its original texture after cooling to ambient temperature.
Mechanical stability	Allows for long periods of storage or non-use in the application without and mechanical breakdown of the grease thickener (e.g. oil separation)
Anti-corrosive properties	Exhibits very good to excellent anti-rust and anti-corrosion properties.
Water resistant	The thickener has very good natural attributes which displace and resist water ingress.
Heat resistant	Exhibits excellent resistance to heat.

TYPICAL APPLICATIONS

Ball & roller bearings, conveyor bearings, plain bearings, slides - general industrial lubrication needs.

Multipurpose industrial applications with heavier loads and slower speeds. Sliding machine elements (cams and ways).

For slow moving bearings and certain gears that are subjected to high and/or shock loads typically used in pins and bushes on earthmoving equipment, sliding surfaces, slow moving heavily loaded bearings, axles, 5th wheels, screws and slew ring gears.

Slow-moving, heavily loaded bearings, bushings and slides, typically found in the rigging industry.

General recommendation - avoid contamination of the grease by dust, moisture and/or dirt when applying the product.

TYPICAL TECHNICAL CHARACTERISTICS

DESCRIPTION	METHOD	UNITS	RESULT
NLGI Grade	ASTM D 217		2
Thickener Type			Lithium Calcium
Colour	Visual		Tan
Appearance	Visual		Buttery, Tacky
Penetration	ASTM D 217	0.1mm	280
Dropping Point	ASTM D 2265	°C	190
Viscosity of Oil @ 40°C	ASTM D 2983	cSt	1300
4-Ball Wear Test Scar	ASTM D 2266	mm	0.5
4-Ball Weld Load	ASTM D 2596	kg	>450
Timken OK Load	ASTM D 2509	lb	80
Corrosion Prevention	ASTM D 1743		Pass
Copper Strip Corrosion	ASTM D 4048		1B

The above are average values. Minor variations which do not affect product performance are to be expected in normal manufacturing.

SPECIFICATIONS

ASTM D-5864 / CEC L-33-T-82
KP2M-30 (DIN 51825)
ISO-L-X-CCIB2 (ISO 6743-9)

PACKAGING

100g tubes
500g Tubs (12 per box)
4.5kg Plastic Pail
15kg Steel pails
18kg Plastic pails
50kg Steel drums
180kg Steel open top drums

COMPATIBILITY

Mixing greases in a system can cause issues with thickener systems reacting with each other, changing the physical and chemical structure of the grease, causing an inability to hold or release base oil. Proper care must be taken to ensure compatibility when changing from one grease system to another.

This grease is not compatible with greases making use of the following thickener types: barium, bentonite clay, aluminium complex and polyurea. There is a borderline compatibility with calcium and sodium thickeners. Care must be taken to ensure the application is properly cleaned before using this product if a borderline or non-compatible product has been used before.

ENVIRONMENT, HEALTH and SAFETY

This product is classified under the OECD 301B Modified Sturm, ASTM D-5864, and CEC L-33-T-82 standards as being inherently biodegradable (i.e. 20-70% biodegradable in 28 days). Information is available on this product in the Material Safety Data Sheet (MSDS). Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. This product contains no PCB's (Polychlorinated Biphenyls).

Misrepresentation Act 1967. Trade description Act 1968. The information in this publication is based on our experience and reports from customers. There are many factors outside our control and knowledge which effect the use and performance of our products for which reason no warranty is given, express or implied. This information sheet was prepared from the best information available at the time of issue. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. It is the responsibility of the user to ensure that the products are used in the applications for which they are intended.



Copyright © 2024

PHONE +27 11 827 5935
EMAIL jhb@swifts.co.za
ADDRESS 1 Molten St, Delville Ext 4, Germiston
Johannesburg, South Africa

