

APEX CS HEAVY DUTY EP2

TECHNICAL DATA SHEET

V.01/2024

910



A superior performance grease for the lubrication of industrial bearings working under high temperatures and high loads, often exposed to water contamination which are typically found in the steel and marine industries

DESCRIPTION

APEX CS HEAVY DUTY EP2 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 heavy duty loads are typical.

APEX CS HEAVY DUTY EP2 is manufactured using an calcium sulfonate thickener resulting in a buttery appearance with excellent shear stability characteristics. In addition, this type of thickener is easily pumped, has a excellent resistance to heat and is exhibits excellent water resistance. The optimal operating conditions for this grease in terms of temperature, is from -30 to 205 degrees celcius, however short periods of elevated temperatures can be tolerated without severe damage to the product.

APEX CS HEAVY DUTY EP2 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.

APEX CS HEAVY DUTY EP2 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

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)
High load capabilities	Remarkable load resistance exhibiting high extreme pressure and antiwear properties.
Extended service intervals (long-life)	Allows for extended service intervals - ideal for applications where frequent access for maintenance is restricted.
Chemically resistant	Resistant to mild alkaline and acidic solutions.
Water resistant	The thickener has very good natural attributes which displace and resist water ingress.

TYPICAL APPLICATIONS

Effective lubrication of industrial bearings working under high temperatures and high loads in the specifically in the steel industry.

Also suitable as EP multi purpose grease, in various other industrial applications where water is in frequent contact with the grease.

Chassis lubrication, hinges, winding mechanisms, suspension, steering linkage systems, etc...

General purpose lubrication of all automotive and agricultural equipment.

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

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			Calcium Sulfonate
Colour	Visual		Tan
Appearance	Visual		Buttery, Tacky
Penetration	ASTM D 217	0.1mm	280
Dropping Point	ASTM D 2265	°C	>300
Viscosity of Oil @ 40°C	ASTM D 2983	cSt	420
4-Ball Wear Test Scar	ASTM D 2266	mm	0.45
4-Ball Weld Load	ASTM D 2596	kg	315
Timken OK Load	ASTM D 2509	lb	45
Corrosion Prevention	ASTM D 1743		Pass
Copper Strip Corrosion	ASTM D 4048		1B

SPECIFICATIONS

ASTM D-5864 / CEC L-33-T-82

KP2R-20 (DIN 51825)

ISO-L-X-BFIB2 (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

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

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: calcium and sodium. There is a borderline compatibility with aluminium complex, barium, bentonite clay, calcium 12 hydroxy and polyurea 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.



INDUSTRIAL (PTY) LTD
INDUSTRIAL (PTY) LTD

Copyright © 2024

PHONE +27 11 827 5935

EMAIL jhb@swifts.co.za

ADDRESS 1 Molten St, Delville Ext 4, Germiston
Johannesburg, South Africa

