

SUPER DUTY CS EP1.5 SPH GREASE

TECHNICAL DATA SHEET

V.01/2024

942



Multi purpose heavy duty grease with solids for applications with slow heavy loads in harsh conditions typically found in mining, agricultural processing industries (pins & bushes, rack & pinion, etc...).

DESCRIPTION

SUPER DUTY CS EP1.5 SPH 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 severe extreme loads are typical.

SUPER DUTY CS EP1.5 SPH GREASE 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.

SUPER DUTY CS EP1.5 SPH GREASE is manufactured to a NLGI 1.5 grade resulting in a grease of soft consistency which is suitable for centralised lubrication systems. The product contains a blend of synthetic tackifiers, increasing it's ability to resist water and adherence with all surfaces.

SUPER DUTY CS EP1.5 SPH GREASE is white/cream in colour and whose formulation is fortified with two or more extreme pressure (EP) and corrosion preventative additives enabling the grease to meet or exceed internationally recognised performance standards. In addition this product is fortified with white solids making it suitable for boundary lubrication at high temperatures and/or heavy loads. In the case of accidental overheating, the presence of this material will still guarantee good lubrication and avoid any jamming or sticking.

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

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.

Heavy duty applications in the mining and construction industry. Rack and pinion mechanisms, winch open gearing, slew ring & pinion, etc...

Construction equipment bearings, earthmoving plant, agricultural equipment, pins & bushes, heavy-duty applications experiencing slow speeds and heavy loads.

For the lubrication of 5th wheels, king pins, tractor-trailer turnables, shackle pins, etc...

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

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		1.5
Thickener Type			Calcium Sulfonate
Colour	Visual		White/Cream
Appearance	Visual		Buttery, Tacky
Penetration	ASTM D 217	0.1mm	303
Dropping Point	ASTM D 2265	°C	>300
Viscosity of Oil @ 40°C	ASTM D 2983	cSt	1000
4-Ball Wear Test Scar	ASTM D 2266	mm	0.38
4-Ball Weld Load	ASTM D 2596	kg	>800
Timken OK Load	ASTM D 2509	lb	65
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
KPF1R-20 (DIN 51825)
ISO-L-X-BFIB1 (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: 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.



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