

SUPER DUTY OG 2000

TECHNICAL DATA SHEET

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948



A heavy duty open gear lubricant for use in mining and heavy industrial applications.

DESCRIPTION

SUPER DUTY OG 2000 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 intense loads are typical.

SUPER DUTY OG 2000 is manufactured using a lithium thickener resulting in a buttery appearance with excellent shear stability characteristics. In addition, this type of thickener is easy to pump and has an excellent resistance to heat and water. The optimal operating conditions for this grease in terms of temperature, is from -40 to 150 degrees celcius, however short periods of elevated temperatures can be tolerated without severe damage to the product.

SUPER DUTY OG 2000 is manufactured to a NLGI 0 grade resulting in a very soft grease consistency which is suitable for centralised lubrication systems, enclosed gearboxes and the like. The product contains a blend of synthetic tackifiers, enhancing it's ability to resist water and forms a solid bond with all surfaces making it resistant to 'fling-off' during use.

SUPER DUTY OG 2000 is black/grey 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 both molybdenum disulfide and graphite making it suitable for boundary lubrication at high temperatures and/or heavy loads. In the case of accidental overheating, the presence of these materials will still guarantee good lubrication and avoid any jamming or sticking.

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)
Water resistant	The thickener has very good natural attributes which displace and resist water ingress.
Heat resistant	Exhibits excellent resistance to heat.
Excellent reversibility	After being subject to high temperatures, the grease has excellent reversal characteristics allowing the re-absorption of oil released after periods of high temperature.

TYPICAL APPLICATIONS

Low speed heavily loaded open gears of all diameters, horizontal rack and pinions with fitted automatic lubricators, machinery working in wet salt water conditions, off shore drilling rigs, wire ropes, etc...

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

Draglines, shovels, haul trucks, etc... typically found in the open cast mining industry.

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

Can be used in extreme applications where intense loads, medium to high operating temperatures and wet conditions are experienced.

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		0
Thickener Type			Lithium
Colour	Visual		Black/Grey
Appearance	Visual		Buttery, Very Tacky
Penetration	ASTM D 217	0.1mm	370
Dropping Point	ASTM D 2265	°C	190
Viscosity of Oil @ 40°C	ASTM D 2983	cSt	2030
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
KPFON-40 (DIN 51825)
ISO-L-X-DDIB0 (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: aluminium complex, barium, bentonite clay, calcium complex and polyurea. There is a borderline compatibility 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.



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