



All round Engineering

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PRODUCT DATA SHEET

Magnum Lithium grease EP3

PRODUCT DESCRIPTION

Magnum Lithium Grease EP3 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 light loads and medium speeds are typical.

Magnum Lithium Grease EP3 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.

APPLICATION

- Chassis lubrication, hinges, winding mechanisms, suspension, steering linkage systems, etc...
- Ball & roller bearings, conveyor bearings, plain bearings, slides - general industrial lubrication needs
- General purpose lubrication of all automotive and agricultural equipment.

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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)

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.

Water Resistant - The thickener has very good natural attributes which displace and resist water ingress

TYPICAL TECHNICAL PROPERTIES

TEST PROPERTY	METHOD	UNITS	RESULT
NLGI Grade	ASTM D 217		3
Thickener Type			Lithium
Colour	Visual		Tan
Appearance	Visual		Buttery, Tacky
Penetration	ASTM D 217	0.1mm	235
Dropping Point	ASTM D 2265	°C	190
Viscosity of Oil @ 40°C	ASTM D 2983	cSt	100
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

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

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MEETS THE REQUIREMENTS OF THE FOLLOWING SPECIFICATIONS:

- ASTM D5864
- CEC L-33-T-82
- DIN 51825
- ISO 6743-9

NOTE:

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 with sodium thickeners. Care must be taken to ensure the equipment or area of application is properly cleaned before using this product, if a borderline or non-compatible product has been used before.

ENVIRONMENT, HEALTH and SAFETY

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).

This product has a shelf life of 36 months when stored in a dry environment at ambient temperatures (10-30°C).

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