



Spheerol SY-HT 2

High temperature grease

Description

Spheerol™ SY-HT 2 is a premium quality, anti-wear grease primarily intended for high temperature applications. It combines the unique features of synthetic base fluids with an inorganic thickener. The wax free nature of the synthetic base fluid and its low traction coefficient (compared with mineral oils), provides excellent stability against oxidation at high temperatures as well as superior low temperature lubrication. Spheerol SY-HT 2 offers the potential for energy savings through reduced friction, lower torque and reduced temperatures in the load zone of rolling element bearings. The inorganic thickener contributes to excellent structural stability at very high temperatures as well as a high dropping point. Spheerol SY-HT 2 does not contain lead, chlorine or nitrites.

Application

Spheerol SY-HT 2 is recommended for use in high speed bearings and thrust bearings where a wide temperature range is desired and also in high temperature applications where extended service between relubrication intervals is required. It is particularly suitable for use in electric motor bearings where operating conditions demand reduced friction, low wear and long service life. Spheerol SY-HT 2 has a recommended operating temperature range of -20°C to 200°C, with appropriate re-lubrication intervals.

Advantages

- Reduced downtime and lower maintenance costs due to outstanding high and low temperature performance.
- Extended service life with longer intervals between re-lubrication because of excellent resistance to oxidation.
- Reduced energy consumption (low coefficient of traction).
- Maintenance of grease structure at high temperatures.
- Reduced volatility.

Typical Characteristics

Name	Method	Units	Spheerol SY-HT 2
Thickener type	-	-	Inorganic
Consistency	ISO 2137 / ASTM D217	NLGI Grade	2
Colour	Visual	-	Brown
Texture	-	-	Smooth/ Tacky
Dropping Point	ISO 2176 / ASTM D566	°C/°F	>260 (non melting)
Base Oil Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D445	mm ² /s	100
Worked Penetration (60 strokes @ 25°C / 77°F)	ISO 2137 / ASTM D217	0.1 mm	265-295
Worked Penetration (100,000 strokes @ 25°C / 77°F) - change from 60 strokes	ISO 2137 / ASTM D217	0.1 mm	60
Copper Corrosion (24 hrs, 100°C / 212°F)	ASTM D4048	Rating	1b
Four Ball Wear test - Weld Load	DIN 51350-4A	N	2,500
DIN Classification	DIN 51502	-	K2N-50

Additional Information

In order to minimise potential incompatibilities when converting to a new grease, all previous lubricant should be removed as much as possible prior to operation. During initial operation, re-lubrication intervals should be monitored closely to ensure all previous lubricant is purged.

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