Product Data

Castrol Spheerol EPLX

Bearing grease

Description

Castrol Spheerol™ EPLX range of greases are lithium complex based products containing highly refined mineral oils and fortified with extreme pressure (EP) additives as well as corrosion and oxidation inhibitors. These greases have been formulated with additives that provide good film strength under medium to high loads.

Application

The Spheerol EPLX range are general purpose greases designed for plant wide lubrication. These greases provide exceptional film strength and are formulated with a proprietary additive system to protect against friction and wear under heavy loading. These greases also provide good protection against rust and corrosion as well as resistance to water wash-out; which makes them particularly suitable for equipment where moist or wet conditions are common.

Typical applications are ball and roller bearings, bushings, in steel mills, mining, logging, chemical and construction industries, and where conditions require sealing against outside contaminants such as dust and water.

Advantages

- High mechanical stability – the grease keeps its consistency in service ensuring long lubricant life
- Good adhesion – continuous lubrication and reduced consumption as film stays between lubricated surfaces
- Good water resistance – the grease film remains on the surface even in the presence of water
- Resistant to copper and steel corrosion – helps prevent rust and oxidation on metal surfaces
- Excellent EP and anti-wear properties – protects equipment against extreme loading and helps minimise bearing component wear

Typical Characteristics

Test	Method	Units	EPLX 1	EPLX 2
Appearance, Visual	-	-	Dark amber	Dark amber
Thickener Type	-	-	Lithium complex	Lithium complex
Base Oil Type	-	-	Mineral oil	Mineral oil
NLGI Grade	-	-	1	2
Density @ 20°C/68°F	ASTM D1475	g/ml	0.895	0.9
Worked Penetration, 60 strokes @ 25°C/77°F	ISO 2137 ASTM D217	0.1mm	310-340	265-295
Worked Penetration, 100,000 strokes @ 25°C/77°F, change from 60 strokes	ISO 2137 ASTM D217	0.1 mm	7	6
Dropping Point	ISO 2176 ASTM D2265	°C/°F	260+/500+	260+/500+
Base Oil Viscosity @ 40°C/104°F	ISO 3104 ASTM D445	mm^2/s	460	460
Rust Test, 48 hrs @ 52°C/126°F	ASTM D1743	Rating	Pass	Pass
Copper Corrosion, 24 hrs, 100°C/212°F	ISO 2160 ASTM D4048	Rating	1b	1b
Four Ball Wear Test (1 hr, 40 kg, 1200 rpm, 75°C/167°F), Scar Diameter	ASTM D2266	mm	0.5	0.5
Four Ball EP Test, Weld load	ASTM D2596	kg	400	400
Water Washout @ 79°C/175°F	ASTM D1264	% loss	8	6
Bomb Oxidation @ 99C/210°F, Pressure Drop @ 100h	ASTM D942 DIN 51808	kPa/Psi	20/3	40/6
Roll Stability, 2 hours, 25°C/77°F, Penetration Change	ASTM D1831	% change	1.5	1.5
Oil Separation, 24 hrs, 0.25 Psi, 25°C/77°F	ASTM D1742	%	<1.0	<1.0
ISO Classification	ISO 6743/9	-	L-XBDFB 1	L-XBDFB 2

Subject to usual manufacturing tolerances.

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, relubrication intervals should be monitored closely to ensure all previous lubricant is purged.

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