



Spheerol™ EPLX 460 Range

Bearing grease

Description

Castrol Spheerol™ EPLX 460 Range (previously called 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 460 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

Name	Method	Units	EPLX 460-1	EPLX 460-2
Appearance	Visual	-	Dark Brown	Dark Brown
Thickener type	-	-	Lithium complex	Lithium complex
Base oil	-	-	Mineral oil	Mineral oil
Consistency	ASTM D217 / ISO 2137	NLGI Grade	1	2
Density @ 20°C / 68°F	ASTM D4052 / ISO 12185	kg/m³	880	890
Worked Penetration (60 strokes @ 25°C / 77°F)	ASTM D217 / ISO 2137	0.1 mm	310-340	265-295
Worked Penetration (100,000 strokes @ 25°C / 77°F) - change from 60 strokes	ASTM D217 / ISO 2137	% Change	5	3
Dropping point	ASTM D566 / ISO 2176	°C/°F	260+/500+	260+/500+
Base Oil Viscosity @ 40°C / 104°F	ASTM D445 / ISO 3104	mm²/s	460	460
Rust Test (distilled water)	ASTM D665A / ISO 7120	Pass	Pass	Pass
Copper Corrosion (24 hrs, 100°C / 212°F)	ASTM 4048 / ISO 2160	Rating	1b	1b
Four Ball Wear test - Wear Scar Diameter (40 kgf / 75°C / 1200 rpm / 1 hr)	ASTM D2266	mm	0.5	0.5
Four Ball Weld Load test, Kg	ASTM D2596	kg	315	315
Water Wash-out @ 79°C / 175°F	ASTM D1264 / ISO 11009	%wt loss	6	5
Oxidation Stability, psi drop, psi, max (99°C, 100 hrs)	ASTM D942/ DIN 51808	psi	8	7
Dry Roll Stability	ASTM D1831	% Change	5	3
Oil Separation (24 hrs, 0.25 psi, 25°C / 77°F)	ASTM D1742	%	2	1.8
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.

This product was previously called Spheerol EPLX Range. The name was changed in 2015.

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