Product Data

Spheerol EPL Range

Bearing grease

Description

Castrol Spheerol™ EPL range of greases are lithium 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 EPL range are general purpose greases designed for plant wide lubrication. The range extends from a NLGI 2 for general purpose bearing lubrication to a NLGI 00 (see seperate data sheet) semi-fluid grease suitable for centralised lubrication systems and grease filled gearboxes. These greases 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.

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	EPL 0	EPL 1	EPL 2
Appearance	Visual	-	Amber to Brown	Amber to Brown	Amber to Brown
Thickener type	-	-	Lithium	Lithium	Lithium
Base oil	-	-	Mineral oil	Mineral oil	Mineral oil
Consistency	ISO 2137 / ASTM D217	NLGI Grade	0	1	2
Density @ 20°C / 68°F	ASTM D4052 / DIN 51757D	kg/m³	0.89	0.895	0.9
Worked Penetration (60 strokes @ 25°C / 77°F)	ISO 2137 / ASTM D217	0.1 mm	355-385	310-340	265-295
Dropping point	ISO 2176 / ASTM D566	°C/°F	170/338	195/383	200/392
Base Oil Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D445	mm²/s	150-200	150-200	150-200
Rust Test (distilled water)	ASTM D1743	Pass	Pass	Pass	Pass
Copper Corrosion (24 hrs,100°C / 212°F)	ASTM D4048	Rating	1b	1b	1b
Four Ball Wear test - Wear Scar Diameter (40 kgf / 75°C / 1200 rpm / 1 hr)	ISO 51350 / ASTM D2266	mm	0.45	0.45	0.45
Four Ball Weld Load test - Weld Point	ISO 11008 / ASTM D2596	kgf	200	250	250
Water Wash-out @ 79°C / 175°F	ISO 11009 / ASTM D1264	% wt loss	-	7	3.5
Oxidation Stability - Rotating Pressure Vessel test aster 100 hrs	ASTM D942 / DIN 51808	pressure drop psi	6	6	6
DIN Classification	DIN 51502	-	KP0K-20	KP1K-20	KP2K-20
ISO Classification	ISO 6743/9	-	L-XCBEB 0	L-XBCEB 1	L-XBCEB 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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