



Spheerol EPL 3

Bearing Grease

Description

Castrol Spheerol™ EPL 3 is a lithium based lubricating grease containing highly refined mineral oils and fortified with extreme pressure (EP) additives as well as corrosion and oxidation inhibitors. The grease has been formulated with additives that provide good film strength under medium to high loads.

Application

Castrol Spheerol EPL 3 is suitable for a wide range of plant applications including plain and rolling element bearings. The stiffer consistency afforded by an NLGI 3 grade ensures this product is particularly suitable for the lubrication of bearings that are vertically mounted or components exposed to a high degree of vibration. The good levels of resistance to both corrosion and water wash-out also make this product 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
- Resists the corrosion of both copper and steel - helps prevent rust and oxidation of metal surfaces
- Excellent EP and anti-wear performance - protects equipment against extreme loading and helps minimise bearing and component wear.

Typical Characteristics

Name	Method	Units	Spheerol EPL 3
Appearance	Visual	-	Amber to Brown
Thickener type	-	-	Lithium
Base oil	-	-	Mineral oil
Consistency	ISO 2137 / ASTM D217	NLGI Grade	3
Density @ 20°C / 68°F	ASTM D4052 / DIN 51757D	kg/m ³	900
Worked Penetration (60 strokes @ 25°C / 77°F)	ISO 2137 / ASTM D217	NLGI Grade	220-250
Dropping point	ASTM D2265	°C/°F	200/392
Base Oil Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D445	mm ² /s	150-200
Rust Test (distilled water)	ASTM D1743	Pass	Pass
Copper Corrosion (24 hrs, 100°C / 212°F)	ASTM D4048	Rating	1b
Four Ball Wear test - Wear Scar Diameter (40 kgf / 75°C / 1200 rpm / 1 hr)	ISO 51350 / ASTM D2266	mm	0.45
Four Ball Weld Load test - Weld Point	ISO 11008 / ASTM D2596	kgf	250
Water Wash-out	ISO 11009 / ASTM D1264	% wt loss	3.0
Oxidation Stability - Rotating Pressure Vessel test after 100 hrs	ASTM D942 / DIN 51808	pressure drop psi	6
DIN Classification	DIN 51502	-	KP3K-20

Storage

All packages should be stored upright in a covered area, away from extreme climatic influences, dirt and dust.

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