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## Spheerol EPL 3

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### Applications

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.

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.

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### Main Benefits

- 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.
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### Specifications

NLGI 3

Temperature Range: -20 to +120°C

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### Storage

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

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### Health, Safety and Environment

Health, safety and environmental information is provided for this product in the Materials Safety Data Sheet. This gives details of potential hazards, precautions and First Aid measures, together with environmental effects and disposal of used products.

BP p.l.c. or its subsidiaries will not accept liability if the product is used other than in the manner or with the precautions or for the purpose/s specified. Before the product is used other than as directed, advice should be obtained from the local BP office.

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### Typical Characteristics

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Test Methods

Units

Grade :

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NLGI 3

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Test	Method	Units	EPL 3
Appearance, Visual	-	-	Amber to brown
Thickener Type	-	-	Lithium
Base Oil Type	-	-	Mineral oil
NLGI Grade	-	-	3
Density @ 20°C	ASTM D1475	g/ml	0.900
Worked Penetration, 60 strokes @ 25°C	ASTM D217	0.1mm	220-250
Dropping Point	ASTM D2265	°C	200
Base Oil Viscosity @ 40°C	ASTM D 445	mm <sup>2</sup> /s	150-200
Rust Test, 48 hrs @ 52°C	ASTM D1743	Rating	Pass
Copper Corrosion, 24 hrs, 100°C	ASTM D4048	Rating	1b
Four Ball Wear Test (1 hr, 40 kg, 1200 rpm, 75°C/167°F), Scar Diameter	ASTM D2266	mm	0.45
Four Ball EP Test, Weld load	ASTM D2596	kg	250
Water Washout @ 79°C	ASTM D1264	% loss	3.0
Bomb Oxidation @ 99 °C, Pressure Drop @100h,	ASTM D942	Psi	6
DIN Classification	DIN 51502	-	KP3K-20

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*The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.*

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