Spheerol EPLX Range

Multi-purpose grease

Description

Castrol Spheerol™ EPLX are multi-purpose greases based on mineral oil and a lithium-complex soap; they are formulated to provide excellent high-temperature lubrication performance. They possess EP load carrying properties, and contain additives selected to enhance oxidation, corrosion and wear resistance.

Application

Spheerol EPLX greases are formulated for use in grease-lubricated plain or rolling bearings operating at temperatures from -30 to 150°C/-22°F to 302°F. They may also be used for short periods at temperatures of up to 180°C/356°F in bearings designed to operate under such conditions. In such cases, the frequency of re-lubrication should be increased; operators should contact equipment manufacturers for guidance.
Examples of applications include all types of general industrial machinery, electric motors and machine tools, as well as applications involving higher temperatures – such as papermaking machinery or bearings of ventilation machinery and oven fans.
Spheerol EPLX greases are also suited for bearing lubrication under highly loaded and vibratory conditions – such as in steel mills, railway axle-boxes and construction equipment. The long service-life potential of EPLX at temperatures over 100°C/212°F makes it ideally suited to machines in which poor accessibility makes frequent regreasing difficult

Advantages

• High operating temperature capability
• Suitable for highly loaded and vibratory working conditions
• Maximum equipment protection
• Long service life
• Excellent anti-corrosion properties
• Very adhesive to surfaces

Typical Characteristics

Name	Method	Units	EPLX 200-1	EPLX 200-2
Appearance	-	-	Smooth, brown grease	Smooth, brown grease
Thickener Type	-	-	Li-complex	Li-complex
NLGI Class	ISO 2137/ ASTM D217	-	1	2
Base oil kinematic viscosity at 40°C	ISO 3104/ ASTM D445	mm²/s	200	200
Worked penetration at 25°C after 60 strokes, dmm	ISO 2137/ ASTM D217	-	310 - 340	265 - 295
Change in worked penetration at 25°C after 100000 strokes, dmm	ISO 2137/ ASTM D217	-	+30	+25

Name	Method	Units	EPLX 200-1	EPLX 200-2
Oil separation	IP 121/ DIN 51817	% wt	<5	<5
SKF Emcor corrosion test dist water	ISO 11007	-	0	0
SKF Emcor corrosion test acid solution	ISO 11007	-	0	0
SKF R2F-B test @ 140°C	SKF Method	-	Pass	Pass
Copper Corrosion, 24h / 120°C	ISO 2160/ ASTM D4048	-	1 b	1 b
Oxidation Stability, 100h / 100°C	ASTM D942/ DIN 51808	bar	0.7	0.2
Timken OK-load	ASTM D2509	lbs	45	45
Four Ball Weld Load, N	ASTM D2783/ DIN 51350:4	-	2600	2600
Shell Roll Stability 50h/80°C	ASTM D1831	-	+55	+55
SKF-V2F-test 500 & 1000rpm	-	-	-	pass (0g/+26g)
SKF WBG test, vibrated	-	-	-	pass
Flow pressure: -20°C / +15°C	DIN 51805	mbar	-	600/120
DIN Classification	DIN 51502		KP1 N-30	KP2 N-30

Subject to usual manufacturing tolerances.

Castrol Industrial, Technology Centre , Whitchurch Hill , Pangbourne , Reading , RG8 7QR , United Kingdom

www.castrol.com/industrial