



Spheerol™ LCX 6002

Lithium Complex Grease

Description

Spheerol™LCX 6002 is a super lithium complex grease of NLGI 2 consistency. It employs a unique combination of polymeric and EP additives to give the highest levels of extreme pressure wear resistance combined with outstanding water resistance and adhesion. The highly refined mineral base stock has a viscosity of 200 cSt at 40°C which gives excellent hydrodynamic protection in slow to medium speed / heavily loaded bearings and contributes to the exceptional water resistance of the product. The operating temperature range of Spheerol LCX 6002 is -20°C to +160°C.

Application

Spheerol LCX 6002 excels in a wide range of demanding off-road applications including conveyors, chassis points, bucket pins, heavily loaded plain bearing in shovel loaders and other mining/construction equipment. It uses an advanced water handling additive technology that gives the product the ability to resist washout and water contamination in operation. The additive system used in Spheerol LCX 6002 also reacts with water and becomes tackier when used in wet conditions. This tends to keep the grease in NLGI grade even with water contamination up to ~ 20% by weight. Extensive field-testing shows that Spheerol LCX 6002 also has exceptional 'stay in place' performance in all environments.

Advantages

- Ultimate EP protection contributes to extended bearing life and reduced maintenance down time.
- Outstanding water resistance maximises protection, reduces grease consumption and increases re-grease intervals particularly in off-road and construction applications.
- Excellent 'stay in place' performance means minimum re-greasing and equipment down time.
- Excellent oxidation resistance characteristics enable the product to operate for extended periods in a wide range of climates.

Typical Characteristics

Name	Method	Units	Spheerol LCX 6002
Thickener type	-	-	Lithium Complex
Consistency	ISO 2137 / ASTM D217	NLGI Grade	2
Colour	Visual	-	Blue
Texture	-	-	Smooth/stringy
Dropping point	ISO 2176 / ASTM D566	°C/°F	280/536
Base Oil Viscosity @ 100°C / 212°F	ISO 3104 / ASTM D445	mm ² /s	18-25
Base Oil Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D445	mm ² /s	198-250
Worked Penetration (60 strokes @ 25°C / 77°F)	ISO 2137 / ASTM D217	0.1 mm	265 - 295
Water Spray-off	ASTM D4049	%wt loss	18
Rust Test (distilled water)	ASTM D1743	Pass	Pass
Copper Corrosion (24 hrs, 120°C / 248°F)	ASTM D4048	Rating	1b
Four Ball Weld Load test - Weld Point	ASTM D2783	kgf	500
Timken OK Load	ASTM D2509	kg/lbs	27.2/60
Wheel Bearing Life test	ASTM D3527	hrs	230

Additional Information

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

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