



## Spheerol LC 2

Heavy Duty Grease

### Description

Castrol Spheerol™ LC 2 is a long-term heavy duty grease, based on lithium-calcium thickeners and mineral oil. Specially selected additives give an outstanding wearing protection, excellent corrosion prevention and long-term lubrication properties for many different areas of operation.

### Application

Castrol Spheerol LC 2 is a design for lubricating highly stressed anti-friction bearings and heavy duty rollers running at slow or medium rotation speeds, under high loads and with occasional impact-type loads. Roller bearings will maintain their long-term lubrication performance even with excessive water contact. Spheerol LC 2 is particularly suited for lubrication of bearings contained in Wind Turbines.

### Advantages

- Excellent water resistance – means the lubricating film is not washed off even in the presence of water.
- Outstanding anti-wear properties – protects equipment and helps minimise bearing wear.
- Superior mechanical stability – helps reduce product consumption in high volume applications.
- High dropping point – withstands breakdown in high temperature applications.
- Resists oxidation and prevents corrosive activity on bearings in aggressive process water environments.

## Typical Characteristics

Name	Method	Units	Spheerol LC 2
Appearance	Visual	-	Amber
Thickener type	-	-	Lithium-calcium
Base oil	-	-	Mineral oil
Density @ 20°C / 68°F	ASTM D4052	kg/m <sup>3</sup>	960
Worked Penetration (60 strokes @ 25°C / 77°F)	ISO 2137 / ASTM D217	0.1 mm	265-295
Dropping Point	ISO 2176 / ASTM D566	°C/°F	>175/>374
Base Oil Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D445	mm <sup>2</sup> /s	400
Base Oil Viscosity @ 100°C / 212°F	ISO 3104 / ASTM D445	mm <sup>2</sup> /s	28
Copper Corrosion (24 hrs, 100°C / 212°F)	ASTM D4048	Rating	1
Rust Test - EMCOR (distilled water)	ISO 11007 / ASTM D6138	Rating	0/0
Four Ball Wear test - Weld Load	DIN 51350-4A	N	3400
Water Resistance	DIN 51807-1	Rating	0
FE-9 Bearing Life test - A/1500/6000-130	DIN 51821-2	Pass	Pass
FE-8 Bearing Wear test	DIN 51819-2	roller wear (Mw50) mg	<5
ISO Classification	ISO 6743/9	-	L-XBCEB 2
DIN Classification	DIN 51502	-	KP 2 K-20

Subject to usual manufacturing tolerances.

Spheerol LC 2

12 Jul 2012

Castrol, the Castrol logo and related marks are trademarks of Castrol Limited, used under licence.

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Material Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either BP plc or its subsidiaries for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our local representative if you require any further information.

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

[www.castrol.com/industrial](http://www.castrol.com/industrial)