

Castrol Optitemp LG Range

Low-temperature Greases, Compatible with Plastics

Description

OPTITEMP™ LG are fully synthetic lithium greases on a polyalphaolefin base. They are especially designed for the application at low temperatures and for bearings running at high speeds in the normal temperature range. Good compatibility with plastics and elastomers.

OPTITEMP® LG 2 is approved according to: VW/AUDI - TL-VW 778 A; BMW - GKM No.0127 403, 0127 473; DBL - 6827.40; Brose - 002-563501-104 group 3; Opel - B 040 0060 for LG 0

Application

- Door lock cylinders and door locks in vehicle construction.
- Rolling and sliding bearings, clutch bearings and wheel hubs for long-term and lifetime lubrication at low temperatures.
- Bearings running at high speeds (n x dm - factor up to 1 mio.).
- Grease-lubricated sliding surfaces at temperatures from - 50°C/- 58°F to + 100°C/+ 212°F or + 120°C/+ 248°F
- OPTITEMP® LG 0 - due to its soft, semi-fluid grease structure it is especially suited for friction points in precision mechanics.
- Wide temperature application range:
 - OPTITEMP® LG 0: - 50°C/- 58°F to +100°C/+ 212°F
 - OPTITEMP® LG 2: - 50°C/- 58°F to +120°C/+ 248°F

Conditions of Use

- Fill bearing housing only about half-full with OPTITEMP® LG.
- Follow the specifications of the bearing manufacturers.
- Thoroughly clean bearing before introducing the initial fill.
- Do not mix with other greases. In case of doubt please consult the Technical Service of Castrol Industrie GmbH as to the compatibility with competitive products.
- OPTITEMP® LG 2 is also available as spray (Art.-no. 09512)

Advantages

- Easy start-up at low temperatures.
- Compatible with plastics such as polyacetal (e.g. "Delrin") and polyamide (e.g. "Ultramid")
- Compatible with elastomers based on synthetic materials (e.g. NBR, CR) and NR-base as well as with rubber.
- Do not affect top coat paints e.g. in vehicle construction.
- Optimum wear protection.
- Good corrosion protection.
- Extraordinary water resistance.

Typical Characteristics

Name	Method	Units	LG 0	LG 2
Colour	Visual	-	Light Coloured	Light Coloured
Base Oil	-	-	PAO	PAO
Thickner type	-	-	Lithium Soap	Lithium Soap
Worked Penetration (60 strokes @ 25°C / 77°F)	ISO 2137 / ASTM D217	0.1 mm	355-385	265-295
Dropping point	ISO 2176 / ASTM D566	°C/°F	192/377.6	220/428
Water Resistance	DIN 51807-1	Rating	0	0
Rust Test - EMCOR (distilled water)	ISO 11007 / ASTM D6138 / DIN 51802	Rating	0	0
Oil Separation (168 hrs @ 40°C / 104°F)	IP 121 / DIN 51817	% wt	15.3	3.7
Flow Pressure @ -40°C / -40°F	DIN 51805	mBar	97	584

Castrol Optitemp LG Range

23 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