



## Spheerol LZ

Long-term Grease

### Description

Castrol Spheerol™ LZ (previously named Energrease™ LZ) is a long-term multi-purpose grease with high adhesive strength and high mechanical and thermal stability. Spheerol LZ contains carefully selected base oil and lithium soap components which are resistant to oxidation as well as a highly efficient corrosion and oxidation inhibition. Spheerol LZ is approved according to Mercedes-Benz- fuel-specification page 267.

Spheerol LZ is free of lead.

### Application

Due to its high load carrying capacity and its water resistance Spheerol LZ is suited for the universal use in building site operations and in all transport devices. In addition it can be used in machines of the agricultural and forestry sector and also for demanding grease lubrication points in industrial gearboxes. Spheerol LZ is particularly suited for highly loaded rolling and plain bearings in a wet and dusty environment (e.g. universal joints, wheel hubs, sprockets, steering racks, etc.).

The temperature range for this grease lies between - 20 °C and + 120 °C (for a short time even 130°C).

### Advantages

- Resistant to ageing and thus provides long-term application.
- High mechanical and thermal stability.
- Excellent lubricity over a broad temperature range.
- Good water resistance.
- Excellent corrosion protection.
- High adhesive strength.
- Good wear protection behavior due to special high-pressure additives.
- Grease collar protects the bearings against humidity and dirt.

## Typical Characteristics

Name	Method	Units	Spheerol LZ
Thickener	-	-	Lithium
NLGI Grade	DIN 51 818	-	2
Structure	-	-	Tacky
Colour	ASTM D1500	-	Brown
Dropping point	DIN ISO 217	°C	195
Base Oil Viscosity @ 40°C	DIN 51 562	mm <sup>2</sup> /s	100
Worked Penetration, 60 Strokes	DIN ISO 2137	0.1 mm	265...295
Oil separation: 168 hrs @ 40°C	DIN 51 817	%	3.0
Corrosion Protection (SKF Emcor)	DIN 51 802	Rating	0/1
Copper Corrosion Protection; 24 hrs @ 100°C	DIN 51 811	Rating	1
Oxidation Stability; 100 hrs @ 100°C	DIN 51 808	bar	0.2
Water Resistance; 3hrs @ 90°C	DIN 51 807/1	Rating	1
Timken OK Load test	ASTM D2782	lbs	45
Timken EP Test - Wear	ASTM D2509	mg	4
SKF R2F B @ 130°C	DIN 51 806	Rating	Pass
FAG FE-9 @ 120°C, L 10	DIN 51 821/2	-	90
FAG FE-9 @ 120°C, L 50	DIN 51 821/2	-	130
Flow pressure at + 20°C	DIN 51 805	hPa	100
Flow pressure at -25°C	DIN 51 805	hPa	1100
Temperature range	-	°C	-20...120
For a short time up to max.	-	°C	130
DIN Classification	DIN 51502	-	KP2K-20

## Additional Information

The product was previously called Energrease LZ. The name was changed in 2015.

## Storage

All grease containers should be stored in an upright position and under a roof. They should be protected against extreme climatic influences like solar radiation and strong frost as well as dust and dirt.

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