

rhenus LKZ 2

Lithium complex EP grease



Description	rhenus LKZ 2 is a lithium complex soap grease based on a synthetic base oil.
Application and Properties	rhenus LKZ 2 was specially developed for use in rolling bearings of electric motors and generators. rhenus LKZ 2 can be used in cardan shafts, shaft seals and gearboxes due to its good elastomer compatibility and wide temperature range.
Practical examples	Electric motors, gearboxes, generators, cardan shafts, radial shaft seals, earthmoving machinery, cryogenic applications Tests or use in applications must always be discussed in advance with our application-engineering department.
Special advantages:	<ul style="list-style-type: none"> • low starting resistance at low temperatures • excellent pressure absorption capacity • good wear protection • excellent shear stability • extended service life • good water resistance • very good protection against corrosion

Technical Data

Property	Method	Unit	min	max	typical
Thickener			Lithium Complex Soap		
Service temperature range*		°C	- 40	150	
Temporary permissible temperature*		°C		170	
Drop point	DIN ISO 2176	°C	250		
Worked penetration after 60 DS	DIN ISO 2137	¹ / ₁₀ mm	265	295	
Base oil type			Synthetic oil		
Base oil - Viscosity at 40 °C	DIN 51 562-01	mm ² / s			115
Base oil - Viscosity at 100 °C	DIN 51 562-01	mm ² / s			16,7
Water resistance	DIN 51 807-01				1 - 90
Corrosion effect on copper	DIN 51 811				1 - 120
Mechanical dynamic testing FAG - FE 9	DIN 51821-02-A/1500/6000-140	h	F ₅₀ > 300		
Four ball welding load	DIN 51 350-04	N	3800		
Flow pressure at - 40 °C	DIN 51 805	hPa		1400	
Designation	DIN 51 502		KP 2 N-40		

* The service temperature range and short-term permissible temperature peaks should only be regarded as guide values, which may depend on the specific application and environmental influences.

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Notes We reserve the right to change the technical data at any time. For additional information, please refer to our safety data sheet or contact our application technology department.
All information in this data sheet is intended solely as a guide to possible areas of application. However, they do not constitute guaranteed assurances regarding the suitability of the product for individual applications. Furthermore, they do not release the user from the obligation to test the suitability of the product in a trial. Our application-engineering department will be pleased to advise you on this. The information marked as typical values is based on our general experience and does not represent a guarantee of properties