rhenus LEC 3

Lithium EP Grease – NLGI-Grade 3

Description

rhenus LEC 3 is a high performance EP-grease based on high quality mineral oil.

Application and Properties

rhenus LEC 3 suits for lubrication of roller and friction bearings within the specified temperature range, under normal and heavy duty conditions, particularly for lubrication points exposed to high pressure and impact loads as well as moisture.
rhenus LEC 3 meets the SEB 181 253 (specification of German steel industry).
rhenus LEC 3 contains a special corrosion protection preventing corrosion caused by water in intermediate bearings of work rolls.

Application examples:
In steel works: roller tables and lubrication of rolls in hot and cold rolling mills as well as continuous tube mills with centralised lubricating systems. Also for the lubrication of slewing ring bearings of building machines and slewing tower cranes, roller lubrication of conveyors, forging presses, centralised lubricating systems of building machines.

Advantages:

- pump able in central lubricating systems
- extremely resistant to oxidation
- good water- resistance
- high mechanical stability
- good protection against corrosion
- high pressure load capacity
- good adhesiveness

Technical Data

Thickener		Lithium-Soap
Operating temperature for long-term lubrication		-30 to +140℃
Short time admissible temperature peak value		+160℃
Drop point	ASTM D 2265	>185℃
Worked penetration after 60 strokes	ASTM D 217	220 to 250 1/10 mm
Penetration loss after 100 000 strokes	ASTM D 217	< 30 1/10 mm
Type of base oil		Mineral oil
Base oil viscosity at 40°C	ASTM D 445	195 mm²/s
Water resistance	DIN 51 807-01	1 – 90
SKF Emcor Test (+ 3% NaCl)	IP 220/85	Corrosion degree 2/2
Copper Strip Test	ASTM D 4048	Corrosion degree 1-120
FAG-FE9 - Test	DIN 51821-02-A/ 1500/6000-130	F_{50} > 200 h
Designation	DIN 51 502	KP 3 K-30

Subject to modification of the technical data. Please refer to the material safety data sheet for additional information or contact our application engineers.

Edition

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