

Product Data Sheet

Crystal LC-Plex

Description and Applications

Saheli Crystal LC-Plex is a lithium complex thickened lubricating grease based on mineral oil and contains antioxidants, corrosion inhibitors and EP/AW additives. The lithium complex soap makes **Saheli Crystal LC-Plex** suitable for applications within a very wide temperature range and especially applications at elevated temperatures. The complex soap structure also gives **Saheli Crystal LC-Plex** a high degree of mechanical stability. This enhances the performance in vibrating housings and prolongs re-lubrications intervals. **Saheli Crystal LC-Plex** is excellent at high temperatures, has very good mechanical stability and high load carrying capacity.

Saheli Crystal LC-Plex is a modern high performance product setting a new standard for a truly universal grease suitable for both industrial and automotive applications. The product's all round properties make it the primary choice for various types of bearing applications including heavy load conditions and temperature peaks up to 160°C and 220°C.

Temperature Range

Saheli Crystal LC-Plex 3

Continuous operation: -30°C to +130°C

Short period: max +160 °C

Saheli Crystal LC-Plex 2

Continuous operation: -30°C to +140°C

Short period: max +220 °C

Specifications/Classification

- **Saheli Crystal LC-Plex 3 - NLGI 3**
- **Saheli Crystal LC-Plex 2 - NLGI 2**
- DIN 51502: KP3K-30 / KP2N-30
- ISO 6743: ISO-L-XCCEB3 / ISO-L-XCDIB2

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Test Parameters	Test Method	Typical Results	
Approximate Density @20°C	IPPM-CS/03	950kg/m ³	950kg/m ³
NLGI Classification	ASTM D217	3	2
4-ball weld load	DIN 51350-4	2600N	2800N
Base Oil Viscosity @ 40°C	ISO 12058	110mm ² /s	210mm ² /s
Base Oil Viscosity @ 100°C	ISO 12058	9mm ² /s	18mm ² /s
Dropping Point °C	IP 396	>260	>260
<u>Mechanical Stability</u>			
Penetration 60 strokes	ISO 2137	220-250	265-295
Penetration 100.000 strokes	ISO 2137	+40	+30
Shell Roll Stability 50hrs @ 80°C	ASTM 18031mod	+80	+70
<u>Corrosion Protection</u>			
SKF Emcors distilled water	ISO 11007	0-0	0-1
Copper Corrosion 24hrs @ 100°C	ASTM D4048	1b	1a
Water washout resistance	DIN 51807-1	1-90	1-90
Oil Separation 168hrs @ 40°C	IP 121	1%	2%
<u>Anti-wear Properties</u>			
4-ball wear scar 1hr @ 400 N	DIN 51350-5	0.6mm	0.7mm
Timken 45lbs	IP 326	OK	OK