

GREASE LS EP series

Description

Lithium-based greases for general use with high pressure additives for general lubrication. They cover all EP lubrication requirements of vehicles and machinery. They are suitable for ball bearing lubrication. They are also used in centralized lubrication systems (LS EP-00)

Application

LS-EP greases are suitable for lubricating bearings with EP requirements in industry, agricultural vehicles and machinery. Working temperatures -30 to +125°C.

Operation Characteristics

- Excellent adhesion to metal surfaces.
- Excellent pumpability, even at low temperatures.
- Stability and resistance to shear.
- Resistance to water washout.
- Wide temperature range of efficient operation.
- High protection in extreme pressure operating conditions.

Specifications, Approvals, Recommendations

NLGI 0000 DIN 51825: KP000 K-30, NLGI 00 DIN 51825: KP00 K-30, NLGI 0 DIN 51825: KP0 K-30, NLGI 1 DIN 51825: KP1 K-30, NLGI 2 DIN 51825: KP2 K-30, NLGI 3, DIN 51825: KP3 K-30, NLGI 00 DIN 51825: KP 00 K-30

Typical Physical Characteristics

| | ASTM | 000 | 00 | 0 | 1 | 2 | 3 |
|---|-------------|---------|---------|---------|------------|---------|---------|
| NLGI Grade | | 000 | 00 | 0 | 1 | 2 | 3 |
| Dropping Point °C | D- 566 | | | >170 | >180 | >200 | >200 |
| Cone Penetration @25°C mm ⁻¹ (work 60 str.) | D-217 | 445-475 | 400-430 | 355-385 | 310-330 | 265-295 | 220-250 |
| Base Oil Viscosity @40°C, cst | D-445 | 180-220 | 180-220 | 180-220 | 180-220 | 180-220 | 180-220 |
| Copper Corrosion , max | D-4048 | 1b | 1b | 1b | 1b | 1b | 1b |
| Oxid. stability after 100h, pressure drop | D-942 | max 5 | max 5 | max 5 | Max 5 | max 5 | max 5 |
| Water stability 10000 strokes +10% H2O mm ⁻¹ | DIN - 51804 | <60 | <60 | <60 | <60 | <60 | <60 |
| Oil Separation max %. | D-1742 | 5 | 5 | 5 | 5 | 5 | 5 |
| Roll stability,mm-1 | D-1831 | | | | -25 to +60 | | |
| Four ball wear test, mm | D-2596 | | | | < 0,60 | | |
| Four ball weld point test, kg | D-2596 | | | | 250 | | |
| Water Washout wt% loss | D-1264 | | | | < 10 | | |
| Rust Prevention | D-1743 | | | | Pass | | |

These are typical values. Small variation should be expected for future productions / blendings

Health, Safety and Environmental Protection

It is unlikely to cause any significant problem to the health or safety of the user when used properly, according to the typical handling of lubricating and usual personal hygiene practices. The used lubricants must be recycled in accordance with applicable legislation and placed in approved collection points. Do not discharge into drains, soil or water / sea. Always follow the instructions of the safety data sheet.

ROVEL Lubricants are designed, produced and distributed in accordance with a Certified Management System as per ISO9001, ISO14001 and OHSAS 18001 requirements
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