

Zeal Protect Grease EP series

High Performance Lithium based - Extreme Pressure Greases



Product Data Sheet

Product Description

Zeal Protect Grease EP series are high performance greases, formulated with lithium based thickeners and extreme pressure additive system to provide extra protection against wear, rusting and water washout. They are available in NLGI grades ranging from 000 to 3 with base oil viscosity of ISO VG 150, 320 & 460. They are suitable for most types of Automotive and Industrial applications, including heavy-duty applications where high unit pressures are present. EP 0, 1, 2 & 3 greases are suitable for operating temperatures range from -20°C to 130°C, while EP 000 & 00 greases are suitable for operating temperatures range from -25°C to 120°C.

Features & Benefits

- **Outstanding load carrying capacity** - reduces wear under heavy or shock loading and vibrations, for good equipment reliability and performance.
- **Excellent corrosion protection** - protects bearing surfaces against corrosion, even when the grease is contaminated with water.
- **Good Oxidation and Thermal stability** - protects against deposit formation at high operating temperatures and oil thickening, thus maintains the life and performance of grease.
- **Excellent resistance to water washout** - resists washout of grease in equipment and provides good lubrication even in presence of water.
- **Superior mechanical stability** – resists grease softening in application, where extended mechanical working and high vibrations leads to subsequent loss of lubrication performance and leakage.

Application

Zeal Protect Grease EP series are suitable for most types of Marine, Automotive & Industrial applications.

- Zeal Protect Grease EP 00, EP 0 and EP 1 are suitable for centralized lubrication systems and other applications where low temperature performance and effective leakage control are required.
- Zeal Protect Grease EP 2 and EP 3 are suitable for multipurpose applications in antifriction and plain bearings, bushings and pins, operating under moderate to severe load conditions.

Typical Characteristics

Zeal Protect Grease	Test Method	Units	EP 000	EP 00	EP 0	EP 1	EP 2	EP 3
NLGI Grade	ASTM D 217	--	000	00	0	1	2	3
Thickener Type	--	--	Lithium	Lithium	Lithium	Lithium	Lithium	Lithium
Penetration, Worked @ 25 °C	ASTM D 217	0.1 mm	445-475	400-430	355-385	310-340	265-295	220-250
Viscosity @ 40 °C	ASTM D 445	cSt	460	320	160	160	160	160
Dropping Point	ASTM D 566	°C	-	-	190 (min)	190 (min)	190 (min)	190 (min)
4-Ball Wear, Scar	ASTM D 2266	mm	0.5	0.5	0.4	0.4	0.4	0.4
4-Ball Weld Load	ASTM D 2596	Kg	240	240	250	250	250	250

The above figures are typical of blends with normal production tolerance and do not constitute a specification.