

Samic Compact Moly Grease EP series

High Performance Lithium-Moly based - Extreme Pressure Greases



Product Data Sheet

Product Description

Samic Compact Moly Grease EP series are high performance greases, formulated with lithium based thickeners fortified with 5% Molybdenum Disulfide (MoS₂) solid lubrication, high quality base oils and extreme pressure additive system to provide excellent protection against wear, rusting and water washout. They are available in NLGI grades ranging from 00 to 3 with base oil viscosity of ISO VG 460 & 320. They are suitable for most types of Automotive and Industrial applications, including heavy-duty Marine applications where high temperatures, heavy shock loads and extreme unit pressures are present. Moly Grease EP 1, 2, & 3 greases are suitable for operating temperatures range from -20°C to 130°C, while Moly Grease EP 00 & 0 greases are suitable for operating temperatures range from -25°C to 120°C.

Performance & Customer Benefits

- **Good resistance to water washout** - provides good lubrication even in presence of water.
- **Excellent Oxidation and Thermal stability** - protects against deposit formation at high operating temperatures and oil thickening, thus maintains the life and performance of grease.
- **Outstanding shock loads 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.
- **Outstanding mechanical stability** – resists grease softening in application, where extended mechanical working and high vibrations leads to subsequent loss of lubrication performance and leakage.

Main Application

Samic Compact Moly Grease EP series are suitable for most types of Marine, Automotive & Industrial applications.

- Samic Compact Moly Grease EP 00, EP 0 and EP 1 are suitable for heavily loaded centralized lubrication systems and other applications like wire ropes, chain/sprocket etc., where low temperature performance and effective leakage control are required.
- Samic Compact Moly Grease EP 2 and EP 3 are suitable for antifriction and plain bearings, bushings and pins, operating under moderate to severe load conditions & in applications with high shock loads.

Typical Physical Characteristics

Samic Compact Moly Grease	Test Method	Units	EP 00	EP 0	EP 1	EP 2	EP 3
NLGI Grade	ASTM D 217	--	00	0	1	2	3
Thickener Type	--	--	Li-Moly	Li-Moly	Li-Moly	Li-Moly	Li-Moly
Penetration, Worked @ 25 °C	ASTM D 217	0.1mm	400-430	355-385	310-340	265-295	220-250
Viscosity @ 40 °C	ASTM D 445	cSt	460	320	320	320	320
Dropping Point	ASTM D 566	°C	-	190 (min)	190 (min)	190 (min)	190 (min)
4-Ball Wear, Scar	ASTM D 2266	mm	0.5	0.4	0.4	0.4	0.4
4-Ball Weld Load	ASTM D 2596	Kg	310	315	315	315	315

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