



### SHIELD L-EP

#### PRODUCT DESCRIPTION:

SHIELD L-EP is a versatile extreme-pressure grease formulated with lithium 12-hydroxystearate soap thickener and premium mineral base oils. It is enriched with antioxidants, rust and corrosion inhibitors, as well as extreme pressure and anti-wear additives. SHIELD L-EP grease provides excellent mechanical stability, high load-carrying capacity, and reliable protection against wear and corrosion.

#### APPLICATIONS

The consistency of NLGI 0, 1 greases makes them suitable for use in the centralized lubrication system. These greases are recommended for steel mill lubrication and heavy duty plain and rolling element bearings and gearboxes requiring a semi-fluid grease, heavy duty, industrial applications where high unit pressures or shock loads are present. SHIELD L-EP is also suitable for commercial vehicle and construction equipment applications such as chassis joints and pin bushing lubrication. NLGI 3 grade is recommended for inclined and vertical shafts applications even under severe vibrations.

#### PRODUCT ADVANTAGES

- The operating temperature range is from -25°C to 130 °C.
- Excellent mechanical stability
- Easy to pump at low temperatures
- Excellent resistance against water
- Very good anti-wear protection
- Very good rust and corrosion protection

#### TYPICAL PROPERTIES:

PARAMETERS	TEST METHODS	TYPICAL VALUE					
		000	00	0	1	2	3
NLGI Grade	-	000	00	0	1	2	3
Thickener Type	-	Lithium					
Appearance	Visual	Smooth & Homogenous					
Color	Visual	Yellow to Brown					
Work Penetration @25°C	ASTM D217	445 - 475	400-430	355-385	310-340	265-295	220-250
Copper Strip Corrosion, 24hrs @100°C	ASTM D4048	1b max.	1b max.	1b max.	1b max.	1b max.	1b max.
Dropping Point °C, Min	ASTM D2265	N/A	N/A	N/A	190	190	190
Water Washout Resistance %Wt. @79°C	ASTM D1264	N/A	N/A	N/A	Max 10		
Four Ball Weld Load, Kgf, Min	ASTM D2596	200					
Operating Temperature Range, °C	INTERNAL	-25 to 130					
Base Oil Viscosity @40°C (Cst)	ASTM D445	90 -110					

DISCLAIMER: The test data provided above is for reference purposes and is not a strict specification, as variations within acceptable production tolerances may occur. Phoenix reserves the right to update or revise this test data. For the most accurate and up-to-date information, please consult the latest version of this Technical Data Sheet (TDS).

#### HEALTH & SAFETY, ENVIRONMENT:

Prolonged and repeated contact with oil may cause skin disorders. Avoid contact. Wash immediately with soap and water. Do not discharge used oil in to drains or the environment. Dispose to an authorized used oil collection point. For further Information on Safety Guidelines please refer to MSDS available on our website [Phoenixlubricants.com](http://Phoenixlubricants.com)