



TECHNICAL DATA SHEET

COMPASS™ EP HEAVY DUTY LUBRICATING GREASE

The primary features of this heavy-duty grease are tolerance for water and the ability to withstand heavy loads.

Compass™ EP is a lithium-calcium grease, fortified with synthetic polymers that cause the grease to cling to metal and repel water, even at high pressure.

When water does eventually get mixed into the body of the grease, the impact is less than with conventional grease. Compass™ EP contains additives that counteract the negative impact of water ingress. During standardized laboratory testing, water was mixed for 5,000 strokes; the degree of softening was then measured. There was no measurable effect on the consistency of the grease. Under this test, many greases become soft to the point of flowing.

The ability of Compass™ EP to withstand extreme pressure is evidenced by the high weld point (500 kilograms) on the Four Ball machine. End users consistently report that Compass™ EP performs under load as well as greases that cost substantially more.

BENEFITS:

- RESISTS WATER – keeps a protective film on metal.
- STABLE – retains its body under high load or when water enters.
- WEAR PROTECTION – contains molybdenum disulfide for protection under high load.
- PUMPABLE – can be used in automatic systems at low temperatures.

APPLICATIONS:

Recommended for slow and medium speed industrial bearings, especially those that are exposed to high load and/or water. Use in steel mills and other primary metal processing, pulp and paper operations, waste water treatment facilities, cement mills, rubber and plastics, marine applications, mining, logging, construction, etc.

ASTM #		TYPICAL CHARACTERISTICS
	Grade	EP 2
D-217	Cone Penetration (Worked)	265-295
D-2265	Dropping Point, °F (°C)	400 (204)
D-445	Kinematic Viscosity (Base Oil) cSt @ 40°C cSt @ 100°C	263.0 21.1
D-445	Kinematic Viscosity (Base Oil w/Polymer) cSt @ 40°C cSt @ 100°C	430 29
Gardner Method	Density, lb/gal @ 60°F (15.5°C) Specific Gravity, g/cc @ 60°F (15.5°C)	8.3 0.9966
D-2596	Four Ball EP Weld Point, kg	500
D-2266	Four Ball Wear Scar Width, mm	0.57
D-4049	Water Spray Off, % Loss	10
D-1264	Water Washout, % Loss	2
D-1743	Rust Test	Pass
D-4048 (Modified)	Copper Strip Corrosion for Greases 212°F (100°C) @ 3 hrs	1B
OEM Standard	Low Temperature Pumpability Lincoln Ventmeter @ 400 psi, °F (°C)	30 (-1)
	Thickener Type	Lithium

The above are average values. Minor variations which do not affect product performance are to be expected in normal manufacturing.

PACKAGING

Shuttle Tanks	Nonreturnable Totes	Drums	Kegs	Pails
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