



Coupling Grease

Phillips 66® Coupling Grease is a high-performance, polymer-containing lithium grease developed for use in grease-lubricated flexible couplings, such as those commonly found in mining equipment, power plants, manufacturing plants and chemical plants. It has exceptional resistance to oil separation when subjected to the high centrifugal forces typically encountered with medium and high-speed gear, metallic grid and chain couplings.

Coupling Grease is specifically formulated to the lower (softer) end of the NLGI No. 1 grade to meet most OEM requirements. It is manufactured with high-quality, high-viscosity base oils and lithium 12-hydroxystearate soap thickener. It is fortified with special extreme-pressure (EP) additives, oxidation and corrosion inhibitors, and polymers to withstand the centrifugal action in couplings and adhere to the moving parts to provide lubrication, minimize friction and help extend coupling life. It has outstanding performance in the Koppers K36 Centrifugal Oil Separation Test.

Applications

- Gear, metallic grid and flexible-chain couplings
- Couplings commonly used in mining and gas field equipment
- Couplings and universal joints operating under high centrifugal forces
- Couplings used between electric motors and gearboxes in industrial and chemical plants

Coupling Grease meets the requirements of the following industry specifications:

- ANSI/AGMA Standard 9001-B97, Type CG-1 & CG-2 for medium and high-speed couplings

Features/Benefits

- Outstanding resistance to oil separation
- Excellent oxidation resistance and thermal stability
- High load-carry capacity
- Protects against rust and corrosion
- Minimizes friction and wear to help extended coupling life

**High-
Performance,
Extreme-
Pressure
Lithium Grease
for Industrial
Couplings**





Coupling Grease

Typical Properties	
NLGI Grade	0.5/1
Thickener	Lithium
Color	Dark Amber
Dropping Point, °C (°F)	>177 (>350)
Density, lbs/gal	7.55
Penetration, ASTM D217	
Worked 60 strokes	335
Worked 10,000 strokes	305
Texture	Tacky
Four-Ball EP, ASTM D2596, Weld Load, kgf	315
Four-Ball Wear, ASTM D2266, Scar Diameter, mm	0.40
Koppers Centrifugal Oil Separation Test, K36, ASTM D4425	
24 hrs, 50°C, vol %	<2
Oxidation Stability, ASTM D942, 100 hrs, Pressure Drop, psi (kPa)	5 (35)
Rust Prevention, ASTM D1743	Pass
Timken OK Load, ASTM D2509, lb	50
Base Oil Properties:	
Viscosity (with polymer)	
cSt @ 40°C	>3,200
cSt @ 100°C	142
Viscosity (without polymer)	
cSt @ 40°C	620
cSt @ 100°C	30
Usable Temperature Range	
°C	-12 to 121
°F	10 to 250

Health & Safety Information

For recommendations on safe handling and use of this product, please refer to the Safety Data Sheet via <http://www.phillips66.com/EN/products/Pages/MSDS.aspx>.