

279 SPINDLE & COUPLING COMPOUND

Spindle & Coupling Compound is a para-synthetic heavy duty, anti-wear, extreme pressure coupling grease that is recommended for the lubrication of all types of spindle, gear and chain type couplings common to the mining, steel mill, non-ferrous metal processing and power plant industries.

Spindle & Coupling Compound is compounded from a unique combination of high quality para-synthetic base oils and specially selected additives in an aluminum complex base thickener to provide the following outstanding performance features:

- **PERFORMANCE**
 - Excellent reversibility. This property allows Spindle & Coupling Compound to have the ability to retain its grease-like consistency and remain in the couplings during periods of heat, high shock loading, extreme pressure and severe mechanical action.
 - Superior resistance to oil separation due to centrifugal forces.
 - Adhesive film-forming characteristics in order to resist to “squeeze out” and “sling out”.
 - Resistance to film destruction by contaminating oils or greases “migrating” from nearby mechanisms.

- **STABILITY**
 - Excellent shear and mechanical stability.
 - Excellent resistance to oxidation.
 - A high dropping point.
 - Excellent resistance to water washout.

- **WEAR PROTECTION**
 - Excellent anti-wear and extreme pressure load carrying properties.
 - Formulation of an almost indestructible adhesive film with a “cushioning” effect, even under extreme pressure and low speeds.
 - Excellent rust and oxidation inhibiting characteristics.

- **LUBRICANT FILM**
 - Molybdenum disulfide and other solid lubricants which plate to metal surfaces
 - Acts as a “backstop” lubricant if the grease base is either destroyed or wiped away due to unexpected loads, start-up or other conditions
 - Withstands pressures in excess of 500,000 pounds per square inch, giving the various mating metal surfaces of the couplings the protection they need during periods of high speed, high shock loads and extreme pressure.
 - Minimize pitting of the mating surfaces of the coupling.
 - Reduced friction and wear.
 - Minimize cold welding at the contacting asperities.
 - Minimize the vibration of “stick slip”.
 - Reduced contact temperatures.
 - Less downtime Increased equipment life.

Spindle & Coupling Compound can be applied either manually or by heavy duty automatic lube systems.

TYPICAL PROPERTIES

NLGI GRADE

Worked Penetration 77°F/25°C	2
Type Thickeners	265-295
Dropping Point °F/°C (ASTM D2265)	Aluminum Complex
Rust Inhibition Test (ASTM D1743)	500°/260°
Oxidation Stability (ASTM D942)	1,1,1
psi loss @ 100 hours	0.5
Timken E.P. Test (ASTM D2509)	
OK Load, lbs.	65
Four Ball E.P. Test (ASTM D2596)	
Weld Point, kg	400
Load Wear Index, kg	84.36
Four Ball Wear Test (ASTM D2266)	
Scar Diameter, mm	.56
Falex Continuous Load (ASTM D3233)	
Failure Load, lbs.	+3200
Water Washout (ASTM D1264)	
% Loss 175°F/79°C	4%
Copper Strip Corrosion Test (ASTM D4048)	1a

Base Oil Properties:

Viscosity, cSt @ 40°C (ASTM D445)	226.17
Viscosity, cSt @ 100°C (ASTM D445)	18.89
Viscosity Index (ASTM D2270)	95
Flash Point °F/°C (ASTM D92)	518°/270°
Fire Point °F/°C (ASTM D92)	550°/287.78°