

A Lubricating Breakthrough.

Xtek Formula 800 Coupling Compound.

The result of more than two years of extensive research and development by a consortium of scientists and engineers.

Field tested in tough, hardworking rolling mills across the country. Formula 800 is a lubricant that provides unprecedented resistance to the exceptional heat and friction generated by geared couplings operating in high torque, high angularity applications.

Formula 800 is an extreme pressure (EP), high viscosity lubrication compound that effectively reduces coupling wear and maintenance costs by getting between the teeth of gear couplings and staying put.

Formula 800 --- Why It Works Best.

General purpose greases, including most with an EP additive, can't hold up to the severe sliding forces and accompanying frictional heat generated by couplings as they transmit vast amounts of power to huge mill stands. These ordinary lubricants quickly break down, resulting in premature wear to the gear components.

Formula 800 Coupling Compound is different. Blended from the finest hydrotreated paraffin base stocks and PAO synthetic oils, Formula 800 contains a proprietary blend of EP additives, graphite and molybdenum disulfide. This package of ingredients provides a dramatic one-two punch.

First, the EP elements give superior resistance to the high temperatures caused by sliding action -- and then the graphite and molybdenum components work to synergistically prevent surface damage under even the most extreme operating conditions.

This combination of base stocks and special additives allows Formula 800 to operate over wide temperature ranges with excellent thermal stability and extreme resistance to oxidation and washout. What's more, the superior field application results have been supported by high scores in independent laboratory tests. Formula 800 exhibits a very high Viscosity Index, and the highest load ratings in both the Four Ball Load and Timken OK load tests.



Xtek
Solutions In Motion™

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As the leading designer and manufacturer of geared couplings, Xtek is committed to continually researching ways to improve the design of geared couplings and for ways to enhance their performance in rolling mills. With over 35 year's experience in reconditioning couplings, we know how important the correct lubricants and lubing practices are to extending the life of the geared elements. That's why Xtek developed Formula 800 -- a product specifically formulated to work substantially better than other greases in geared couplings operating in high torque, high angularity applications.

The addition of Formula 800 Coupling Compound to Xtek's advanced mechanical designs and unsurpassed reconditioning services will enable rolling mills to achieve reduced coupling wear and lower maintenance costs. Problem Solved.



Technical Specifications

Test	Specification No.	Result	Test	Specification No.	Result
NLGI Grade		1	Timken EP Test	ASTM D-2509	
Worked Penetration 77°F (25°C)	ASTM D-217	310-340	OK Load, lbs		70
Dropping Point °F	ASTM D-2265	None	Fail Load, lbs		75
Four Ball EP Test	ASTM D-2596		Oxidation Test, PSI loss at 100 hrs.	ASTM D-942	2
Weld Point, kg		800	Wear Washout Test, % loss 175°F (29°C)	ASTM D-1264	1.2%
Load Wear Index, kg		115	Water Spray Off, % wt. Max.	ASTM D-4049	15
Four Ball Wear Test	ASTM D-2266		Centrifugal Oil Bleed, % Oil Bleed	MM-1406	2
Scar Diameter, mm		0.42	Pressure Oil Separation Test, U.S. Steel Method, gms. Oil Separated		.20
Coefficient of Friction		0.10			
Falex Continuous Load Failure Load, lbs	ASTM D-3233	4500			

Base Oil Properties

Test	Specification No.	Result
Viscosity, SUS, 100°F	ASTM D-445	16,112
Viscosity, SUS, 210°F	ASTM D-445	641
Viscosity, cSt, 40°C	ASTM D-445	2,960
Viscosity, SUS, cSt, 40°C	ASTM D-445	132
Viscosity Index	ASTM D-2270	129
Flash Point, °F/°C	ASTM D-92	525/274
Fire Point, °F/°C	ASTM D-92	590/310
Pour Point, °F/°C	ASTM D-97	5/-15

Xtek Formula 800 Coupling Compound is formulated and blended under strict quality control conditions at an ISO 9002 certified production facility.

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