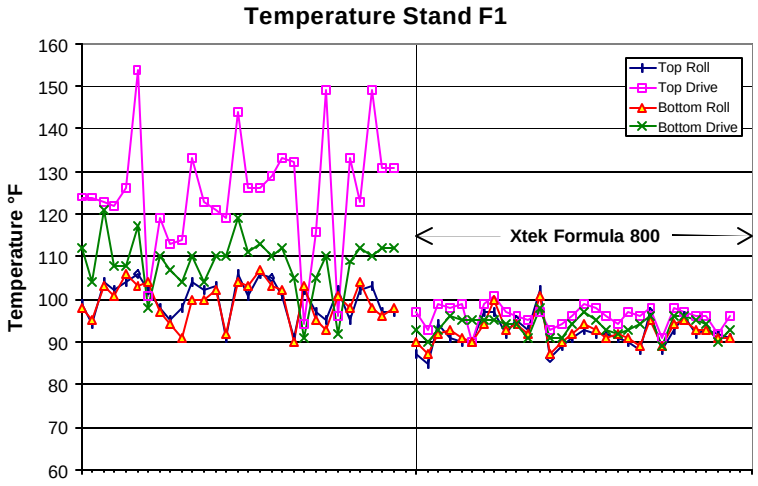
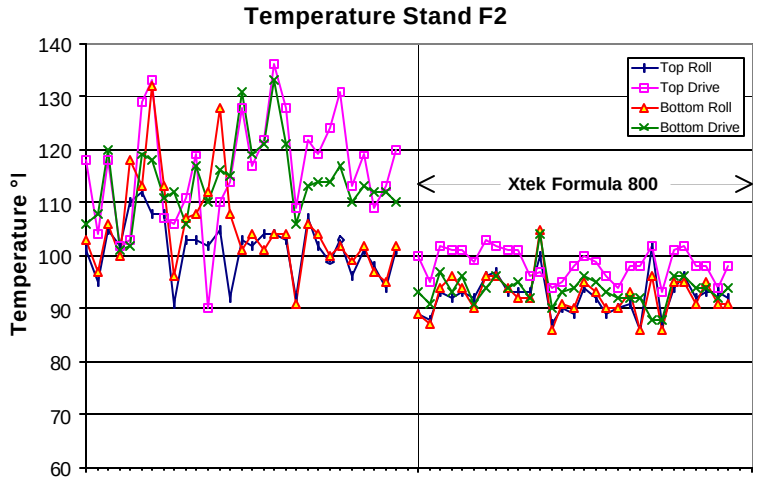
Xtek Formula 800™ Coupling Compound

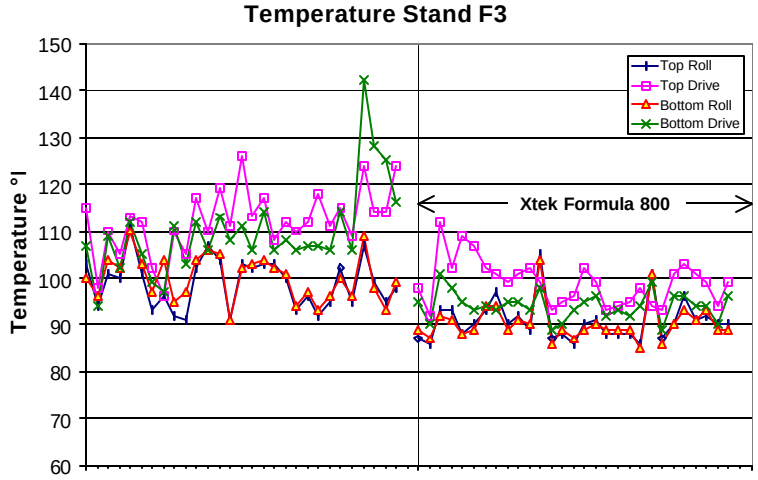
Xtek has done extensive research on the lubrication requirements of gear couplings. To meet the needs of today's high torque and high angularity gear coupling applications, Xtek has developed Formula 800 Coupling Compound. The lubricating properties of Xtek Formula 800 were specifically engineered to provide a barrier between highly loaded contacting surfaces. Its use results in less wear, reduced operating temperatures and longer life for all of the critical coupling components. Xtek Formula 800, along with proper lubricating practices, provides resistance to heat and friction generated by gear couplings operating at high torque and high angularity.

TEMPERATURE REDUCTION AFTER CHANGE TO XTEK FORMULA 800

Data was collected at a large Hot Strip Steel Mill facility with an annual production of more than five million tons. The figures at right show bulk temperature data of the first three of seven finishing stands. The average operating temperature was reduced by more than 12.5°F after changing to Xtek Formula 800 Coupling Compound.







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Proper lubricant and lubrication procedures greatly increase the life of a gear coupling. Using Xtek Formula 800 Coupling Compound on a regular basis will significantly improve the performance of Hot Strip Mill coupling assemblies. Xtek recommends that you:

- Lubricate gear cavities weekly.
- Install rolls before lubricating.
- Add lubrication until grease purges from the cavity.
- Track operating temperatures on a daily basis.

For more information, please call (513) 733-7800

TECHNICAL DATA – XTEK FORMULA 800			
NLGI Grade	#1	BASE OIL PROPERTIES	
Worked penetration, 77°F/25°C (ASTM D-217)	310-340	Viscosity, CST @ 40°C (ASTM D-445)	2,960
Specific Gravity 60° F	.9007	Viscosity, CST @ 100°C (ASTM D-445)	132
Dropping Point °F (ASTM D-2265	None	Viscosity, CST @ 210°C (ASTM D-445)	138
Roller Bearing Rust Test (ASTM D-1743) – Rating	1,1,1 (Pass)	Viscosity, SUS @ 100°C (ASTM D-445)	16,112
Four Ball EP Test (ASTM D-2596)		Viscosity, SUS @ 210°C (ASTM D-445)	641
Weld Point, kg	800	Viscosity Index (ASTM D-2270)	129
Load Wear Index, kg	115	Flash Point F°/C° (ASTM D-92)	525°F/274°C
Four Ball Wear Test (ASTM D-2266)		Fire Point F°/C° (ASTM D-92)	590°F/310°C
Scar Diameter, mm	.42	Pour Point F°/C° (ASTM D-97)	5°F/-15°C
Coefficient of Friction	.1		
Falex Continuous Load (ASTM D-3233			
Failure Load, lbs. (Pounds Force)	4,500		
Timken EP Test (ASTM D-2509)			
OK Load, lbs.	70		
Fail Load, lbs.	75		
FZG (Four Square Gear Test) DIN 51-345 (Base Oil Only)	+13th Stage		
Oxidation Test (ASTM D-942) – PSI Loss at 100 hr.	2		
Water Washout Test (ASTM D-1264) - % Loss 175°F/79°C	1.2%		
Water Spray Off (ASTM D-4049) - % wt, Max.	15%		
Centrifugal Oil Bleed (MM-1406 - % Oil Bleed	2%		
Pressure Oil Separation Test, U. S. Steel Method			
Grams of Oil Separated	.20		

Xtek FORMULA 800™ COUPLING COMPOUND

Properly lubricated gearing after 1 year tour-of-duty in a hot strip mill