1500 Paper Mill Gold

Calcium Sulfonate Complex technology has moved to the pulp and paper mill industry, developing a product that surpasses the competitive greases in the industry. Calcium Sulfonates, which have always been known for the best anti-corrosive qualities, are combined with a high viscosity base oil to produce the best in paper mill lubrication.

At the press roll, grease must withstand high E P conditions, water washout and remain mechanically stable. The table below illustrates the difference between 1500 PMG and the most common competitive product.

Mechanical Stability of Grease in Paper Mills

Test	Lithium Complex	Calcium Sulfonate Complex
D217 Penetration, 60 Strokes	280	280
Worked 10,000 Strokes	282	282
Worked 100,000 Strokes	289	289
Base Oil	Mineral	Mineral
D1831 Roll Stability, % Of change (4 Hr Duration)		
No Water		
25° C	+9.6	0.0
77° C	+9.6	+3.6
+50% Water		
25° C	+9.6	+3.9
77° C	+24.3	+0.0
+50% Mill Water		
25° C	+13.5	+5.0
77° C	+18.9	- 1.4

+ = Softer

At the dryer end, where temperature is 50° C and humidity is 100%, 1500 PMG offers better corrosion protection and higher dropping points than competitive products.

NLGI Grade: 2 Thickener Type: Calcium Sulfonate Complex
Color: Gold Texture: Smooth/Tacky

Test	ASTM Method	Typical Result
US Steel Mobility Test @ 0° F		.12 grams / sec.
Roll Stability, % change	D-1831	0
Modified 100 ml water, 200° F, % change		-2.5
DI Rust Protection, 48h/52C	D-1743	PASS
Dropping Point, ° F (° C)	D-2265	550 + (288)
4-Ball Wear Scar, mm	D-2266	0.4
4-Ball Weld Point, Kgf	D-2596	500
Timken OK Load, lbs.	D-2509	65
Water Washout	D-1264	
@ 100° F, %		N/A
@ 175° F, %		2.53
Copper Strip Corrosion Rating	D-942	1A
Oil Separation, % Loss	D-1742	0.2
Base Oil Characteristics		
Vis @ 40° C, cSt	D-445	281
Vis @ 100° C, cSt	D-445	22.1
Vis @ 100° F, SUS	D-2161	1500
Vis @ 210° F, SUS	D-2161	110
Viscosity Index	D-2270	97
Flash Point, °F (°C)	D-92	565 (296)
Pour Point, °F (°C)	D-97	25 (4)