

TECHNICAL DATA SHEET



BLACK MAGIC

Premium Mill Grease

Chem and Lube has combined the technology of calcium sulfonate complex with an oil designed specifically for the extreme conditions found in the Hot Strip Mill. This formulation enables Black Magic to

- resist mechanical breakdowns
- withstand extreme pressures
- exhibit exceptionally good anti-wear properties
- resist corrosion

Black Magic provides good pumpability, great water resistance and ability to withstand extreme temperatures.

Black Magic has no heavy metal content, which accounts for its extended wear capabilities and has great appeal as an environmentally friendly product.

Black Magic is intended for use on all steel processing equipment and in central lubrication systems.

Black Magic offers the following:

- Performs over a wide temperature range
- Exhibits good shear stability
- Possesses great water resistance properties
- Provides protection against rust and corrosion
- Shows strong anti-wear and load carrying abilities

Black Magic calcium sulfonate complex grease is part of a new generation of lubrication grease technology. A thickener system comprised of a novel inorganic/organic complex is responsible for **Black Magic's** truly outstanding performance characteristics. The results of extreme bench testing and successful applications in the field indicate **Black Magic** has no shortcomings or weaknesses.

CHEM AND LUBE

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SOAP TYPE: **CALCIUM SULFONATE COMPLEX**
COLOR: **BLACK**
TEXTURE: **SMOOTH**

ASTM #	TEST	CHEM AND LUBE BLACK MAGIC Grade 1	CHEM AND LUBE BLACK MAGIC Grade 1.5	CHEM AND LUBE BLACK MAGIC Grade 2
	NLGI Grade	1	1.5	2
D-217	Cone Penetration Unworked Worked x 60 Worked x 10,000 Worked x 100,000	Report 310-355 Report Report	Report 290 – 335 Report Report	Report 265 – 315 Report Report
D-2265	Dropping Point, °F (°C), Minimum	>500 (260)	>500 (260)	>500 (260)
D-445	Kinematic Viscosity (Base Oil) cSt @ 40°C	460 min	460 min	460 min
D-2596	Four Ball EP Weld Point, kg	620 min	620 min	620 min
D-2266	Four Ball Wear Scar Width, mm	≤0.60 mm	≤0.60 mm	≤0.60 mm
D-4049	Water Spray-Off, % Loss	≤30	≤25	≤15
D-1264 Mod.*	Water Washout, % Loss @ 175°F	≤7	≤5	≤5
D-1743	Rust Test (Distilled water)	Pass	Pass	Pass
D-1831	Roll Stability, % Change	≤15	≤15	≤15
	Thickener Type	Calcium Sulfonate Complex	Calcium Sulfonate Complex	Calcium Sulfonate Complex
	Color	Black	Black	Black
	Texture	Tacky	Tacky	Tacky
	Viscosity Index	90 min	90 min	90 min
	VOC's	None	None	None

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