



TECHNICAL DATA SHEET

DURA-FILM™ HIGH PERFORMANCE GREASE

Dura-Film™ high performance grease is designed to protect equipment under the most severe conditions of high load, shock load, water, and chemical attack. The base fluid is a blend of synthetic polyalphaolefin (PAO) oils for ease of pumping at low temperature and superior resistance to high temperatures. The addition of synthetic polymers gives adhesion to metal.

Dura-Film™ provides extreme pressure protection equal to what is possible using sulfur-phosphor additives, but without the corrosive effect inherent in these conventional materials. The calcium sulfonate thickener provides a natural anti-wear barrier that acts in a similar manner to molybdenum disulfide (MoS₂) in protecting equipment under the most difficult conditions of high load and shock load.

Dura-Film™ protects from corrosion. Even in the presence of strong acids, Dura-Film™ will keep bearings looking new after months of exposure. This makes the product ideal for use in phosphate processing, pulp and paper, and other operations where moisture and corrosive chemicals shorten bearing life.

Dura-Film™ is easily pumped in central lubrication systems and performs well at low temperatures. The NLGI 0 grade can be pumped at -25°F (-32°C).

Dura-Film™ performs well in operations that are wet, dusty, acidic, or alkaline (caustic). Dura-Film™ should be considered for use in any situation where bearings or couplings are failing.

BENEFITS:

- **CORROSION RESISTANT** - protects metal surfaces from water and chemicals including acids, detergent wash, and alkaline wash.
- **LONG LIFE** - certain additives can cause a grease to deteriorate as they break down. These are absent in Dura-Film™.
- **WATER-RESISTANT** - resists thinning out when water enters the body of the grease. Very high resistance to water washout.
- **WIDE TEMPERATURE RANGE** - suitable for use in bearings at temperatures ranging from -25°F (-32°C) to 300°F (150°C).

APPLICATIONS:

Wet Operations: Phosphate processing, suction and wet end rolls on paper machines, outdoor cranes.

Highly Loaded Equipment: Draglines, Electric Mining Shovels, shaker screens, centrifuges, hammer mills.

Due to its very low tendency to bleed oil, Dura-Film™ is highly recommended for mechanical couplings and single point automatic lubricators. The high lubricity of the thickener means that Dura-Film™ will continue to lubricate, even if oil separation occurs over long periods of time in high-speed couplings.

ASTM #	Grade	TYPICAL CHARACTERISTICS		
		0	1	2
D-217	Cone Penetration (Worked)	355-385	310-340	265-295
D-2265	Dropping Point, °F (°C)	NA	>500 (260)	>500 (260)
D-445	Kinematic Viscosity			
	cSt @ 40°C	46	46	46
	cSt @ 100°C	8	8	8
Gardner Method	Density, lb/gal @ 60°F (15.5°C)	8.20	8.25	8.30
D-2596	Four Ball EP			
	Weld Point, kg	400	500	500
	Load Wear Index	62	62	62
D-2266	Four Ball Wear			
	Scar Width, mm	0.43	0.43	0.43
OEM Standard	Low Temperature Pumpability, Lincoln Ventmeter @ 400 psi, °F (°C)	-25 (-32)	-15 (-26)	N/D

The above are average values. Minor variations which do not affect product performance are to be expected in normal manufacturing.

PACKAGING

Bulk	Drums	Pails	Cartridges (50 per case)
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THE WHITMORE MANUFACTURING COMPANY

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