



TECHNICAL DATA SHEET

AFC ANTI-FRICTION COMPOSITION EP GREASE

Whitmore's Anti-Friction Composition is a series of high performance sodium-based greases that are designed for use in slow-moving applications as encountered in industries such as mining, primary metals, cement, and aggregate production.

The AFC greases are fibrous, stringy, and adhesive. Excess grease will form a collar or lip around the seal. This helps in keeping out dust and contaminants.

AFC greases can be used in any bearing or other application where conventional grease is appropriate for lubrication; however they are particularly effective on plain bushings, whether Babbitt, bronze, or leaded steel.

The natural adhesiveness of Whitmore's AFC greases provides excellent film forming characteristics and outstanding resistance to pound out.

AFC greases meet the Extraction Procedure Toxicity guidelines established by the Environmental Protection Agency, which excludes them from the stringent storage and disposal requirements of the EPA Hazardous Waste law.

Maximum DN factor for
 AFC No. 5 (NLGI grade 2): 180,000
 Maximum continuous temperature: 200°F (93°C)
 Maximum occasional temperature: 250°F (121°C)
 Appearance: Black, stringy, adhesive

To calculate the DN factor of a bearing, use the following:
 DN factor for a bearing = $dm \times rpm$
 Where $dm =$ (bearing inside diameter in millimeters + bearing outside diameter) divided by 2

BENEFITS:

- EXTREME LOAD-CARRYING ABILITY - protects from seizure during shock loads.
- REDUCES FRICTION AND WEAR - fortified with EP additives to provide longer equipment life.
- ENERGY EFFICIENT - lowers friction drag for reduced amperage draw.
- PROTECTS UNDER ADVERSE CONDITIONS - tough adhesive and cohesive thickener.
- SEALS OUT CONTAMINANTS – forms a fibrous seal to protect moving parts from dust.

APPLICATIONS:

Choose AFC greases where lubricated components are subjected to high load, slow speed, and contamination.

Recommended for conveyor bearings, calendars, rubber mill bearings, and motor bearings in dusty conditions. Use in bearings in the primary metals or mining industries that operate under high load at slow speeds, i.e., crushers, shaker screens, pelletizers, and centrifuges.

AFC greases are not suitable for use under water.

ASTM #		TYPICAL CHARACTERISTICS		
		No. 5	No. 3	No. 3WW
D-217	Cone Penetration	275-305	320-350	375-405
D-566	Dropping Point, °F (°C)	350 (177)	330 (166)	310 (154)
D-445	Kinematic Viscosity			
	cSt @ 40°C	185	185	87
	cSt @ 100°C	15.4	15.4	9.5
D-2161	Saybolt Viscosity			
	SUS @ 100°F	1,000	1,000	460
	SUS @ 210°F	80	80	58
Gardner Method	Density, lb/gal @ 60°F (15.5°C)	7.70	7.74	7.72
	Specific Gravity, g/cc @ 60°F (15.5°C)	0.925	0.929	0.927
D-2596	Four Ball EP			
	Weld Point, kg	315	315	315
	Load Wear Index	50	50	50
	Thickener Type	Sodium	Sodium	Sodium
OEM Standard	Low Temperature Pumpability			
	Lincoln Ventmeter @ 400 psi, °F (°C)	35 (2)	5 (-15)	-10 (-23)

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

PACKAGING

Shuttle Tanks	Drums	Kegs	Pails
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THE WHITMORE MANUFACTURING COMPANY

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