PHILLIPS 66 LUBRICANTS

Bentone

High Temperature Applications

Extreme Pressure

Clay Thickened Grease

Phillips 66® Bentone is a high quality, extreme pressure (EP), clay thickened grease developed for the lubrication of industrial equipment operating under heavy loads and at high temperatures. It is recommended for medium to large, low speed bearings operating at very high temperatures where conventional soap based greases typically fail to provide satisfactory lubrication.

Bentone is manufactured with high quality, heavy, paraffinic base oils and a non-soap, bentonite clay thickener. It is fortified with EP and antiwear additives to provide outstanding protection for bearings and moving parts exposed to heavy loads and high operating temperatures. It retains good consistency at high temperatures, water washout resistance and storage stability.

Applications

- Banbury mixers
- Drying ovens
- Jaw crushers
- Kiln cars
- Rolling and strip mills
- Steel mills
- Aluminum, cement, glass and rubber plants

Features/Benefits

- Non-melt clay thickener
- Excellent resistance to changes in consistency at high temperatures
- Good EP and antiwear properties
- Adheres to metallic surfaces
- Good shear stability
- High film strength
- Resists water washout
- Good mechanical and storage stability

KEEPING THE WORLD RUNNING SMOOTHLY

Bentone

Typical Properties		
NLGI Grade		**2**
Thickener Type		Bentonite Clay
Color		Gold
Texture		Smooth
Density, lbs/gal		7.40
Dropping Point, °C (°F)	ASTM D2265	>260 (>550)
Viscosity, Kinematic	ASTM D445	
Viscosity @ 40°C, cSt		435
Viscosity @ 100°C, cSt		26.5
Penetration, Worked (60 strokes)	ASTM D217	265-295
Oxidation Stability, 100 Hours, psi (kPa)	ASTM D942	5 (34.5)
Four-Ball EP, Weld Load, Kgf	ASTM D2596	250
Timken OK Load, lbs	ASTM D2509	45
Corrosion Prevention	ASTM D1743	Pass
Copper Corrosion	ASTM D4048	1b

(1) **Note**: *Prolonged or continuous exposure to temperatures above 204°C (400°F) will accelerate base oil oxidation and decrease the service life of the grease. In such applications, frequent relubrication is recommended.*

Health & Safety Information

For recommendations on safe handling and use of this product, please refer to the Safety Data Sheet via http://www.phillips66.com/SDS

01-2019

Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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