PHILLIPS 66 LUBRICANTS

Omniguard® 220

Phillips 66® Omniguard 220 is a high performance, semi-synthetic, multipurpose, extreme pressure (EP), corrosion preventive grease specially developed for use in industrial and automotive equipment operating in wet or corrosive environments. It is recommended for equipment exposed to water contamination, saltwater corrosion and/or high temperatures.

Omniguard 220 is manufactured with high quality base oils and an non-soap, calcium sulfonate thickener. It is fortified with EP and antiwear additives as well as rust and corrosion inhibitors. It offers superior protection against rust and corrosion in high humidity, high temperature applications such as those found in the steel, lumber, tire manufacturing and paper industries. It has excellent load carrying capacity, high shear stability and outstanding resistance to water washout.

Omniguard 220 is NLGI GC-LB certified for use as a multipurpose automotive wheel bearing and chassis lubricant.

Applications

- Industrial and automotive equipment operating at high temperatures and exposed to water contamination, high humidity or corrosive environmental conditions
- Marine equipment, heavy mobile equipment and cables exposed to salt water
- Paper machine wet- and dry-end bearings and hot calender stacks
- Rolling mills, hot roll tables, continuous casters, ingot buggies and slab mills
- Steel mill roller bearings, conveyors and gears
- Centralized lube systems and auto lubbers in service shops

Features/Benefits

- Excellent oxidation resistance and thermal stability at high temperatures
- Outstanding rust and corrosion protection, including resistance to saltwater corrosion
- Excellent EP and antiwear properties
- Outstanding resistance to water washout
- Excellent shear stability
- High dropping point (>550°F)
- Light colored, low staining
- NLGI GC-LB certified

Premium

Semi-Synthetic

Corrosion Preventive

Extreme Pressure

Calcium Sulfonate Grease

KEEPING THE WORLD RUNNING SMOOTHLY.

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Typical Properties			
NLGI Grade		**1**	**2**
Thickener Type		Calcium Sulfonate	Calcium Sulfonate
Color		Tan	Tan
Texture		Smooth	Smooth
Density, lbs/gal		8.01	8.04
Dropping Point, °C (°F)	ASTM D2265	>288 (550)	>288 (550)
Viscosity, Kinematic	ASTM D445		
Viscosity @ 40°C, cSt		220	220
Viscosity @ 100°C, cSt		22.4	22.4
Penetration, Worked (60 strokes)	ASTM D217	310-340	265-295
Oxidation Stability, 100 Hours, psi (kPa)	ASTM D942	<1.0 (<6.9)	<1.0 (<6.9)
Four-Ball Wear Scar, mm	ASTM D2266	0.41	0.39
Four-Ball EP, Weld Load, Kgf	ASTM D2596	500	500
Timken OK Load, lbs	ASTM D2509	65	65
Corrosion Prevention	ASTM D1743	Pass	Pass
Copper Corrosion	ASTM D4048	1b	1b
Water Wash-out, wt%	ASTM D1264	<1.0	<1.0

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.

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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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