



Omniguard® 460

Phillips 66® Omniguard 460 is a premium quality, multipurpose, extreme pressure (EP), calcium sulfonate grease specially developed for use in industrial and automotive equipment operating under severe conditions involving high loads, high temperatures and/or wet environments.

Omniguard 460 is manufactured with high quality base oils, a special polymer and a non-soap, calcium sulfonate thickener. It is fortified with EP and antiwear additives and rust and corrosion inhibitors. It protects 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 outstanding shear stability, resistance to water washout and load carrying capacity to protect against wear and resist mechanical breakdown.

Applications

- Industrial equipment operating under unfavorable conditions involving water contamination, high loads and/or high temperatures
- Plain and rolling element bearings operating in corrosive environmental conditions
- Rolling mills, hot roll tables, continuous casters, ingot buggies and slab mills
- Steel mill roller bearings, conveyors and gears
- Marine and heavy mobile equipment exposed to salt water
- Paper machine wet- and dry-end bearings and hot calender stacks
- Automotive wheel bearings and chassis parts

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
- Outstanding shear stability
- Good adhesion to metal surfaces
- High dropping point (500°F)
- Does not contain heavy metals or other environmentally undesirable components

**Premium
Water Resistant
Multipurpose
Extreme Pressure
Calcium
Sulfonate Grease**





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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		8.15	8.60
Dropping Point, °C (°F)	ASTM D2265	260 (500)	260 (500)
Viscosity, Kinematic	ASTM D445		
Viscosity @ 40°C, cSt		460	460
Viscosity @ 100°C, cSt		30	30
Penetration, Worked (60 strokes)	ASTM D217	310-340	265-295
Oxidation Stability, 100 Hours, psi (kPa)	ASTM D942	<1 (<6.9)	<1 (<6.9)
Four-Ball Wear Scar, mm	ASTM D2266	0.44	0.44
Four-Ball EP, Weld Load, Kgf	ASTM D2596	500	500
Timken OK Load, lbs	ASTM D2509	60	60
Corrosion Prevention	ASTM D1743	Pass	Pass
Copper Corrosion	ASTM D4048	1b	1b

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>.