



Omniguard® XD5

Phillips 66® Omniguard XD5 is a premium quality, high performance, extreme pressure (EP) calcium sulfonate grease developed to satisfy the severe lubrication requirements of mining and off road equipment manufactured by Caterpillar, Terex, Komatsu Dresser, Le Tourneau, P&H and others. It is recommended for use in AC and DC electric drive haul trucks, cranes, scrapers, shovels, drag lines and other equipment operating under wet conditions, moderate to high temperatures and heavy or shock loads.

Omniguard XD5 is manufactured with high quality base oils and a non-soap, calcium sulfonate thickener. It is compounded with select additives that provide EP and antiwear properties, excellent rust and corrosion protection, and excellent oxidation resistance. It is fortified with 5% molybdenum disulfide (moly) for extra wear protection under heavy or shock loads. Functional polymers provide better adhesion to metal surfaces and enhanced resistance to water washout in wet environments.

Applications

- Chassis parts and wheel bearings of mine haul trucks and other off-highway equipment
- Heavily loaded plain and rolling element bearings in industrial and mobile equipment where the manufacturer specifies a high-temperature, EP grease with 5% moly

Features/Benefits

- High dropping point (>500°F)
- High load carrying capacity
- Excellent wear protection
- Contains 5% moly for extra protection against galling and wear under shock loads
- Excellent oxidation resistance
- Excellent resistance to water washout
- Excellent rust and corrosion protection

**Premium
Mining & Off-
Road Equipment
Extreme Pressure
Calcium
Sulfonate Grease
5% Moly**





Omniguard® XD5

Typical Properties			
NLGI Grade		1	2
Thickener Type		Calcium Sulfonate	Calcium Sulfonate
Color		Gray	Gray
Texture		Smooth	Smooth
Molybdenum Disulfide, wt %		5	5
Dropping Point, °C (°F)	ASTM D2265	275 (527)	275 (527)
Viscosity, Kinematic	ASTM D445		
Viscosity @ 40°C, cSt		150	150
Viscosity @ 100°C, cSt		14.8	14.8
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	0.51	0.59
Four-Ball EP, Weld Load, Kgf	ASTM D2596	800	800
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>.