



Omniguard® XD5

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 particularly recommended for use in AC and DC electric-drive haul trucks, cranes, scrapers, shovels and drag lines operating under wet conditions and/or moderate to high temperatures and under heavy loading.

Omniguard XD5 is manufactured with high-quality base oils and a non-soap, calcium sulfonate thickener. It is compounded with select additives that provide extreme-pressure 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 loading. 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, extreme-pressure grease with 5% moly

Features/Benefits

- High dropping point (>550°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

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

CONTACT INFORMATION

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Omniguard® XD5

Typical Properties

NLGI Grade	0	1	2
Thickener	Calcium Sulfonate	Calcium Sulfonate	Calcium Sulfonate
Color	Gray-Black	Gray-Black	Gray-Black
Dropping Point, °C (°F)	>232 (>450)	>288 (>550)	>288 (>550)
Density, lbs/gal	8.10	8.29	8.29
Penetration, Worked (60 strokes), ASTM D217	355-385	310-340	265-295
Texture	Smooth	Smooth	Smooth
Molybdenum Disulfide, wt %	5	5	5
Four-Ball EP, ASTM D2596, Weld Load, kgf	620	800	800
Four-Ball Wear, ASTM D2266, Scar Diameter, mm	<0.50	<0.50	<0.50
Oxidation Stability, ASTM D942, 100 hrs,			
Pressure Drop, psi (kPa)	3 (21)	3 (21)	3 (21)
Rust Prevention, ASTM D1743	Pass	Pass	Pass
Timken OK Load, ASTM D2509, lb	60	60	60
Base Oil Properties:			
Viscosity,			
cSt @ 40°C	150	150	150
cSt @ 100°C	11.5	11.5	11.5
SUS @ 100°C	803	803	803
SUS @ 210°F	66	66	66
Viscosity Index	44	44	44
Operating Temperature Range,			
°C	-34 to 149	-34 to 177	-29 to 177
°F	-30 to 300	-30 to 350	-20 to 350

Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3apps.phillips66.com/NetMSDS>.

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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