



Omniguard® FS XD5

Phillips 66® Omniguard FS XD5 is a premium quality, synthetic, extreme pressure (EP), calcium sulfonate grease developed for use in off road equipment operating at moderate to very low temperatures. It is particularly recommended for use in mobile equipment such as haul trucks, backhoes, excavators, front-end loaders, motor graders and bulldozers operating in wet conditions and under heavy or shock loads.

Omniguard FS XD5 is manufactured with a low viscosity synthetic polyalphaolefin (PAO) base oil and a non-soap, calcium sulfonate thickener. It is compounded with select additives to provide excellent oxidation resistance, EP and antiwear properties, and protection against rust and corrosion. It is fortified with 5% molybdenum disulfide (moly) for extra wear protection under conditions involving heavy or shock loading. The low viscosity synthetic base oil provides outstanding pumpability at low temperatures.

Omniguard FS XD5 has a distinctive platinum color for identification.

Applications

- Off-road construction and mining equipment operating at moderate to very low temperatures
- Steering linkages, kingbolt bearings, pin joints, universal joints and other articulated chassis components
- Heavily loaded plain and rolling element bearings in off-road equipment
- Conveyor and fan bearings in chemical and manufacturing plants that require a corrosion-resistant grease with moly
- Centralized lube systems

Features/Benefits

- High load carrying capacity
- Excellent wear protection
- Contains 5% moly for extra protection against galling and wear under shock loads
- Outstanding low temperature properties
- Excellent resistance to water washout
- Protects against rust and corrosion

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





Omniguard® FS XD5

Typical Properties			
NLGI Grade		1	2
Thickener Type		Calcium Sulfonate	Calcium Sulfonate
Color		Platinum	Platinum
Texture		Smooth	Smooth
Molybdenum Disulfide, wt %		5	5
Dropping Point, °C (°F)	ASTM D2265	280 (536)	280 (536)
Viscosity, Kinematic	ASTM D445		
Viscosity @ 40°C, cSt		37	37
Viscosity @ 100°C, cSt		6.7	6.7
Penetration, Worked (60 strokes)	ASTM D217	310-340	265-295
Oxidation Stability, 100 Hours, psi (kPa)	ASTM D942	3.8 (26)	3.8 (26)
Four-Ball Wear Scar, mm	ASTM D2266	0.45	0.48
Four-Ball EP, Weld Load, Kgf	ASTM D2596	620	620
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>.

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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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