



Megaplex® XD5

Phillips 66® Megaplex XD5 is a high-performance, multipurpose, extreme pressure (EP) lithium complex 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 in severe service under heavy or shock loads.

Megaplex XD5 is manufactured with high-quality base oils, a special polymer and a lithium complex soap thickener. It is fortified with extreme-pressure and antiwear additives, 5% molybdenum disulfide (moly), a tackifier, and rust and oxidation inhibitors to provide excellent wear protection as well as excellent corrosion protection and resistance to water washout in equipment operating under wet conditions and/or high temperatures and subject to heavy or shock loading.

Megaplex XD5 Grades No. 0 and No. 1W are formulated with lower-viscosity base oils than the other two grades for better pumpability at low ambient temperatures.

Applications

- Chassis parts and wheel bearings on mining and other off-highway equipment
- Hydraulic excavator mining shovels, such as Caterpillar 5100 & 5200 series
- Mine haul trucks
- 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 (500°F)
- High load-carrying capacity
- Excellent wear protection
- Contains 5% moly for extra protection against galling and wear under shock loads
- Excellent resistance to water washout
- Excellent resistance to separation
- Protects against rust and corrosion

**Extreme
Pressure
Lithium
Complex Grease
with 5% Moly
for Construction
and Off-Road
Equipment**





Megaplex® XD5

Typical Properties				
NGLI Grade	0	1W	1	2
Thickener	Lithium Complex	Lithium Complex	Lithium Complex	Lithium Complex
Color	Gray-Black	Gray-Black	Gray-Black	Gray-Black
Dropping Point, °C (°F)	260 (500)	260 (500)	260 (500)	260 (500)
Density, lbs/gal	7.92	7.92	7.96	7.99
Penetration, ASTM D217				
Worked 60 strokes	355-385	310-340	310-340	265-295
Texture	Tacky	Tacky	Tacky	Tacky
Molybdenum Disulfide, wt %	5	5	5	5
Four-Ball EP, ASTM D2596, Weld Load, kgf	315	315	315	400
Four-Ball Wear, ASTM D2266				
Scar Diameter, mm	0.50	0.65	0.50	0.50
Oxidation Stability, ASTM D942, 100 hrs				
Pressure Drop, psi (kPa)	4 (28)	4 (28)	4 (28)	4 (28)
Rust Prevention, ASTM D1743	Pass	Pass	Pass	Pass
Timken OK Load, ASTM D2509, lb	55	50	55	55
Base Oil Properties				
Viscosity (with polymer)	2,470		2,470	
cSt @ 40°C	180	140	245	470
cSt @ 100°C	13.7	13.0	19.0	30.0
SUS @ 100°F	962	739	1,304	2,526
SUS @ 210°F	75	72	97	147
Viscosity Index	60	83	86	92
Usable Temperature Range				
°C	-34 to 149	-34 to 149	-29 to 177	-18 to 177
°F	-30 to 300	-30 to 300	-20 to 350	0 to 350

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/EN/products/Pages/MSDS.aspx>.