



Megaplex® XD3

Megaplex XD3 is a high-performance, multipurpose, extreme-pressure (EP) lithium complex grease developed to satisfy the severe lubrication requirements of construction and off-road equipment manufactured by Caterpillar, Komatsu Dresser, Case New Holland, John Deere and others. It is particularly recommended for use in off-highway trucks and heavy equipment, such as bulldozers, motor graders and wheel loaders, operating under heavy or shock loads.

Megaplex XD3 is manufactured with high-quality, heavy base oils, a special polymer, and a lithium complex soap thickener. It is fortified with extreme-pressure and antiwear additives, 3% 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 XD3 Grade No. 1 is NLGI GC-LB certified for use as a multipurpose automotive wheel bearing and chassis lubricant.

Applications

- Chassis parts and wheel bearings of construction, mining and other heavy mobile equipment
- Universal joints, constant velocity joints, brake self-adjusting screws and clutch release bearings on off-highway trucks and other heavy equipment
- Tractor-trailer fifth wheels
- Heavily loaded plain and rolling-element bearings in industrial and mobile equipment where the manufacturer specifies a high-temperature, extreme-pressure grease with 3% moly

Features/Benefits

- High dropping point (>500°F)
- High load-carrying capacity
- Excellent wear protection
- Contains 3% moly for extra protection against galling and wear under shock loads
- Excellent resistance to water washout
- Excellent resistance to separation
- Protects against rust and oxidation
- NLGI GC-LB certified (Grade No. 1)

**Extreme-Pressure
Lithium Complex
Grease With
3% Moly For
Construction &
Off-Road
Equipment**

CONTACT INFORMATION

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Megaplex® XD3

Typical Properties

NGLI Grade	1	2
Thickener	Lithium Complex	Lithium Complex
Color	Gray-Black	Gray-Black
Dropping Point, °C (°F)	>260 (>500)	>260 (>500)
Density, lbs/gal	7.88	7.88
Penetration, Worked (60 strokes), ASTM D217	310-340	265-295
Texture	Tacky	Tacky
Molybdenum Disulfide, wt %	3	3
Four-Ball EP, ASTM D2596, Weld Load, kgf	400	400
Four-Ball Wear, ASTM D2266, Scar Diameter, mm	0.55	0.55
Oxidation Stability, ASTM D942, 100 hrs, Pressure Drop, psi (kPa)	5 (35)	5 (35)
Rust Prevention, ASTM D1743	Pass	Pass
Timken OK Load, ASTM D2509, lb	55	55
Base Oil Properties:		
Viscosity (with polymer),		
cSt @ 40°C	460	460
cSt @ 100°C	30.0	30.0
SUS @ 100°F	2,470	2,470
SUS @ 210°F	147	147
Viscosity Index	94	94
Operating Temperature Range,		
°C	-23 to 177	-18 to 177
°F	-10 to 350	0 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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