



LUBRICANTS

Megaplex® XD3

Phillips 66® 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, high-viscosity 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 corrosion
- NLGI GC-LB certified (Grade No. 1)

**Extreme
Pressure
Lithium
Complex Grease
With 3% Moly
for Construction
and Off-Road
Equipment**

KEEPING THE
WORLD
RUNNING
SMOOTHLY. 



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, ASTM D217 (worked 60 strokes)	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		
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
Usable Temperature Range		
°C	-23 to 177	-18 to 177
°F	-10 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>.