



Megaplex™ XD5

Megaplex™ XD5 is a premium-quality, multipurpose, extreme-pressure (EP) lithium complex grease developed to satisfy the severe requirements of mining and off-road equipment manufactured by Caterpillar, Terex, Komatsu Dresser, Le Tourneau, P&H and others. These include AC and DC electric-drive haul trucks, cranes, scrapers, shovels and drag lines, where the chassis components and bearings are subjected to heavy loading.

Megaplex™ XD5 1W is a lithium complex grease with lower base oil viscosity for improved low-temperature performance.

Megaplex™ XD5 is manufactured with high-viscosity index paraffinic base oils thickened with lithium complex soap. It is fortified with rust and corrosion inhibitors, EP additives, antioxidants, as well as functional polymers for better adhesion in wet environments, while minimizing wear under conditions of high temperature, boundary lubrication and shock loads.

Megaplex™ XD5 contains 5% Molybdenum Disulfide (Moly) to meet Caterpillar MPM requirements.

Applications

- Terex haul trucks and Caterpillar 5100- and 5200-series of hydraulic excavator mining shovels.
- Heavily loaded antifriction and plain bearings used in industrial gearboxes. These are commonly found in steel, chemical and aluminum manufacturing plants, where the manufacturer specifies a lithium complex EP corrosion-resistant grease with 5% Moly.

Outstanding Features

- Meets Caterpillar and Terex requirements for 5% Moly grease (MPGM)
- High dropping point, >500°F (260°C)
- Excellent load-carrying ability
- Excellent water resistance
- Excellent resistance to separation
- Excellent anti-wear protection
- Excellent rust and oxidation inhibition

**High-Performance,
Extreme-Pressure,
Lithium Complex
Grease With 5%
Moly For Mining
And Off-Road
Equipment**

**U.S. Technical Services
Hot line:
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Megaplex™ XD5 Typical Properties

ASTM Test Method					
NLGI Grade		0	1W	1	2
Thickener		Lithium Complex	Lithium Complex	Lithium Complex	Lithium Complex
Color		Moly Gray	Moly Gray	Moly Gray	Moly Gray
Texture		Tacky	Tacky	Tacky	Tacky
Molybdenum Disulfide, wt %		5	5	5	5
Density, lb/gal		7.92	7.92	7.96	7.99
Cone Penetration, (worked 60 strokes) D217		365	325	325	280
Dropping Point, °F (°C)	D2265	>500 (>260)	>500 (>260)	>500 (>260)	>500 (>260)
Timken OK Load, lbs	D2509	55	55	60	60
Water Washout, % Loss	D1264	<5	<5	<5	<5
Four-Ball EP, Weld Load, kgf	D2596	315	315	400	400
Four-Ball Wear, 75°C, mm	D2266	0.50	0.65	0.50	0.50
Rust Preventive Rating	D1743	Pass	Pass	Pass	Pass
Oxidation Stability,					
100 hours, Pressure Drop, psi (kpa) D942		4 (28)	5 (35)	5 (35)	5 (35)
Base Oil Properties*,					
cSt @ 40°C	D445	180	100	177	338
cSt @ 100°C	D445	13.7	10.0	14.2	23.3
SUS @ 100°F		962	526	943	1811
SUS @ 210°F		75	60	77	116
Viscosity Index	D2270	60	76	60	85
Usable Temperature Range,					
°F		-10 to 400	-20 to 200	-5 to 400	+10 to 400
°C		-23 to 204	-28 to 93	-20 to 204	-12 to 204

* Base oil viscosity without polymer

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