



## Megaplex<sup>®</sup> XD5

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 under heavy or shock load conditions.

Megaplex XD5 is manufactured with high-quality base oils thickened with lithium complex soap. It is fortified with extreme-pressure 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 is available for four grades for summer and winter use. Megaplex XD5 1W is formulated with a lower-viscosity base oil than the other three grades for better pumpability at low ambient temperatures.

### **Applications**

- Chassis parts and wheel bearings of mining and other off-highway equipment
- Caterpillar 5100 and 5200 series hydraulic excavator mining shovels
- Terex haul trucks
- Heavily loaded plain and rolling-element bearings in industrial gearboxes where the manufacturer specifies a high-temperature, extreme-pressure grease with 5% moly

Megaplex XD5 meets the performance requirements of:

- Caterpillar Multipurpose Molybdenum Grease (MPGM)

### **Features/Benefits**

- Meets Caterpillar and Terex requirements for 5% moly grease
- High dropping point (>500°F)
- High load-carrying capacity
- Excellent wear protection
- Excellent resistance to water washout
- Excellent resistance to separation
- Protects against rust and corrosion

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

### **Contact Information**

**U.S. Customer  
Service:  
1-800-822-6457**

**U.S. Technical  
Services Hot Line:  
1-800-766-0050**

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## Megaplex® XD5

### Typical Properties

| NLGI Grade                                 | 0               | 1W              | 1               | 2               |
|--|-----------------|-----------------|-----------------|-----------------|
| Thickener                                  | Lithium Complex | Lithium Complex | Lithium Complex | Lithium Complex |
| Color                                      | Moly Gray       | Moly Gray       | Moly Gray       | Moly Gray       |
| Dropping Point,                            |                 |                 |                 |                 |
| °C   | >260            | >260            | >260            | >260            |
| °F   | >500            | >500            | >500            | >500            |
| Density, lbs/gal                           | 7.92            | 7.92            | 7.96            | 7.99            |
| Penetration, Worked (60 strokes),          |                 |                 |                 |                 |
| ASTM D217                                  | 365             | 325             | 325             | 280             |
| Texture                                    | Tacky           | Tacky           | Tacky           | Tacky           |
| Molybdenum Disulfide, wt %                 | 5               | 5               | 5               | 5               |
| Four-Ball EP, ASTM D2596,                  |                 |                 |                 |                 |
| Weld Load, kgf                             | 315             | 315             | 400             | 400             |
| Four-Ball Wear, ASTM D2266,                |                 |                 |                 |                 |
| Scar Diameter, mm                          | 0.50            | 0.65            | 0.50            | 0.50            |
| Oxidation Stability, ASTM D942, 100 hours, |                 |                 |                 |                 |
| Pressure Drop, psi (kPa)                   | 4 (28)          | 5 (35)          | 5 (35)          | 5 (35)          |
| Rust Prevention, ASTM D1743                | Pass            | Pass            | Pass            | Pass            |
| Timken OK Load, ASTM D2509, lb             | 55              | 55              | 60              | 60              |
| Base Oil Properties:                       |                 |                 |                 |                 |
| Viscosity,                                 |                 |                 |                 |                 |
| cSt @ 40°C                                 | 180             | 100             | 177             | 338             |
| cSt @ 100°C                                | 13.7            | 10.0            | 14.2            | 23.3            |
| SUS @ 100°C                                | 962             | 526             | 943             | 1,811           |
| SUS @ 210°F                                | 75              | 60              | 77              | 116             |
| Viscosity Index                            | 60              | 76              | 60              | 85              |
| Usable Temperature Range,                  |                 |                 |                 |                 |
| °C   | -23 to 204      | -28 to 93       | -20 to 204      | -12 to 204      |
| °F   | -10 to 400      | -20 to 200      | -5 to 400       | 10 to 400       |

### Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3.conocophillips.com/NetMSDS>.

Due to continual product research and development, the information contained herein is subject to change without notification.

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