



Multiplex[®] Red

Multiplex Red is a high-performance, multipurpose, extreme-pressure (EP) lithium complex grease developed to satisfy the severe lubrication requirements of heavily loaded plain and rolling element bearings operating at moderate to high temperatures. It is particularly recommended for use in automotive and industrial applications that are too severe or require higher performance than that provided by conventional extreme-pressure lithium greases.

Multiplex Red is manufactured with high-quality paraffinic base oils thickened with lithium complex soap. It contains an effective extreme-pressure additive, a tackifier, and rust and oxidation inhibitors to provide outstanding wear protection, excellent thermal stability at high temperatures, and excellent resistance to corrosion and water washout. It forms an effective seal to help minimize bearing contamination and provides a high level of adhesion to the bearing surface for improved retention, reduced leakage and resistance to water washout. It is dyed red for ease of identification.

Multiplex Red Grades No. 1 and No. 2 are NLGI GC-LB certified for use as multipurpose automotive wheel bearing and chassis lubricants.

Applications

- Wheel bearings of passenger cars, trucks, high-performance vehicles, sport utility vehicles and motorcycles equipped with disc brakes
- Ball joints, universal joints, other chassis points and water pumps on passenger cars, trucks and other mobile equipment
- Heavily loaded plain and rolling element bearings in industrial, mining and mobile equipment where a water-resistant, high-temperature, extreme-pressure grease is required

Features/Benefits

- Excellent high-temperature performance
- Outstanding wear protection
- High load-carrying capacity
- Protects against rust and corrosion
- Excellent resistance to water washout
- Good low-temperature pumpability
- NLGI GC-LB certified (Grades No. 1 and No. 2)

**Multipurpose,
Extreme-Pressure
Lithium Complex
Grease; NLGI GC-LB
Certified**

Contact Information

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

**Technical Hot Line:
1-800-766-0050**

**International
Customer Service:
+1-832-486-3363
+1-832-486-3870**

**E-mail address:
lubricants@
conocophillips.com**

<http://lubricants.conocophillips.com>

600 N. Dairy Ashford • 2W9000 • Houston, TX 77079



Multiplex® Red

Typical Properties

NLGI Grade	0	1	2
Thickener	Lithium Complex	Lithium Complex	Lithium Complex
Color	Dark Red	Dark Red	Dark Red
Dropping Point, °C (°F)	250 (482)	271 (520)	271 (520)
Density, lbs/gal	7.48	7.48	7.48
Penetration, Worked (60 strokes), ASTM D217	355-385	310-340	265-295
Texture	Tacky	Tacky	Tacky
Four-Ball EP, ASTM D2596, Weld Load, kgf	400	400	400
Four-Ball Wear, ASTM D2266, Scar Diameter, mm	<0.60	<0.60	<0.60
Oxidation Stability, ASTM D942, 100 hours,			
Pressure Drop, psi (kPa)	5 (35)	5 (35)	5 (35)
Rust Prevention, ASTM D1743	Pass	Pass	Pass
Timken OK Load, ASTM D2509, lb	70	80	80
U.S. Steel Mobility, g/sec			
@ 4°C (40°F)	4.55	2.18	1.04
@ -7°C (20°F)	1.03	0.57	0.26
@ -18°C (0°F)	0.20	0.11	0.05
Base Oil Properties:			
Viscosity (with polymer),			
cSt @ 40°C	170	170	220
cSt @ 100°C	13.8	13.8	18.0
SUS @ 100°F	905	905	1170
SUS @ 210°F	75	75	93
Viscosity Index	85	85	85
Usable Temperature Range,			
°C	-40 to 194	-29 to 204	-23 to 204
°F	-40 to 382	-20 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>.

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.

Copyright © 2009 ConocoPhillips Company. The ConocoPhillips logo, Conoco, the Conoco logo, Phillips 66, the Phillips 66 logo, 76 and the 76 logo are trademarks of ConocoPhillips Company in the U.S.A. and other countries.

