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(570) 822-1151



Multiplex® Red

Multiplex Red is a high-performance, multipurpose, extreme-pressure (EP) lithium complex grease developed for the lubrication of automotive and industrial equipment operating under heavy loads and at moderate to high temperatures. It is particularly recommended for use in 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 base oils and a lithium complex soap thickener. It is fortified with extreme-pressure and antiwear additives, 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 bearing surfaces for improved retention, reduced leakage and excellent 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, particularly vehicles equipped with disc brakes
- Ball joints, universal joints, other chassis parts and water pumps on passenger cars, trucks and other mobile equipment
- Heavily loaded plain and rolling element bearings in industrial, mining and mobile equipment

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

**Phillips66
Lubricants.com**

U.S. Customer
Service:
1-800-368-7128

Technical Hotline:
1-877-445-9198

International
Customer Service:
1-832-765-2500

E-mail address:
**lubricants@
p66.com**



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 hrs,			
Pressure Drop, psi (kPa)	5 (35)	5 (35)	5 (35)
Rust Prevention, ASTM D1743	Pass	Pass	Pass
Timken OK Load, ASTM D2509, lb	70	70	70
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	1,170
SUS @ 210°F	75	75	93
Viscosity Index	70	70	89
Operating Temperature Range,			
°C	-34 to 149	-34 to 177	-34 to 177
°F	-30 to 300	-30 to 350	-30 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.