



LUBRICANTS

Multiplex® 220

Phillips 66® Multiplex 220 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 220 is manufactured with high quality base oils, a special polymer and a lithium complex soap thickener. It is fortified with EP 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 and reduced leakage.

Multiplex 220 is NLGI GC-LB certified for use as a multipurpose automotive wheel bearing and chassis lubricant.

Applications

- Wheel bearings of passenger cars, trucks, high performance vehicles, sport utility vehicles and motorcycles, particularly those 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
- Good load carrying capacity
- Excellent resistance to water washout
- Protects against rust and corrosion
- Excellent low temperature pumpability
- NLGI GC-LB certified

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

KEEPING THE
WORLD
RUNNING
SMOOTHLY. 



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Typical Properties			
NLGI Grade		1	2
Thickener Type		Lithium Complex	Lithium Complex
Color		Red	Red
Texture		Tacky	Tacky
Density, lbs/gal		7.70	7.70
Dropping Point, °C (°F)	ASTM D2265	>260 (>500)	>260 (>500)
Viscosity, Kinematic	ASTM D445		
Viscosity @ 40°C, cSt		220	220
Viscosity @ 100°C, cSt		18.3	18.3
Penetration, Worked (60 strokes)	ASTM D217	310-340	265-295
Oxidation Stability, 100 Hours, psi (kPa)	ASTM D942	5 (34.5)	5 (34.5)
Four-Ball Wear Scar, mm	ASTM D2266	0.52	0.52
Four-Ball EP, Weld Load, Kgf	ASTM D2596	400	400
Timken OK Load, lbs	ASTM D2509	70	70
Corrosion Prevention	ASTM D1743	Pass	Pass
Copper Corrosion	ASTM D4048	1b	1b
Water Wash-out, wt%	ASTM D1264	5.3	6.1

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/SDS>

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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.

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