



Dynalife® XD1

Phillips 66® Dynalife XD1 is an adhesive, multipurpose, extreme pressure (EP), lithium grease developed for use in a wide variety of automotive and industrial applications. It contains additional tackiness additives for improved retention, reduced leakage and enhanced resistance to water washout.

Dynalife XD1 is manufactured with a high quality base oil and a lithium 12-hydroxystearate soap thickener. It is fortified with EP and antiwear additives, 1% molybdenum disulfide (moly), rust and oxidation inhibitors, and select tackifiers. It has good oxidation resistance and a high load carrying capacity for excellent wear protection. It provides good adhesion and resistance to water washout offering improved retention, protecting metal parts against rust and corrosion. It has excellent resistance to shearing even under severe operating conditions maintaining a good seal to minimize bearing contamination.

Applications

- Automotive chassis parts such as steering knuckles, ball joints, U-joints and tie-rod ends
- Wheel bearings on passenger cars and heavy equipment equipped with drum brakes
- Moderately loaded plain and rolling element bearings in industrial equipment
- Agricultural and construction equipment where a tacky, water resistant, EP lithium grease is required
- General purpose shop/industrial grease

Recommended for use where the OEM specifies:

- Mack MG-C for chassis lubrication

Features/Benefits

- Multipurpose grease for use in a wide variety of industrial and automotive applications
- Good EP and antiwear properties
- Good tackiness for improved retention
- High shear stability
- Protects against rust and corrosion
- Resists water washout
- Protects against fretting in splined shafts, pivot pins and other parts subject to oscillation, sliding or vibration

Adhesive
Multipurpose
Extreme Pressure
Lithium Grease
1% Moly





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Typical Properties		
NLGI Grade		2
Thickener Type		Lithium
Color		Gray
Texture		Smooth/Tacky
Density, lbs/gal		7.78
Molybdenum Disulfide, wt %		1
Dropping Point, °C (°F)	ASTM D2265	180 (356)
Viscosity, Kinematic	ASTM D445	
Viscosity @ 40°C, cSt		220
Viscosity @ 100°C, cSt		18
Penetration, Worked (60 strokes)	ASTM D217	265-295
Oxidation Stability, 100 Hours, psi (kPa)	ASTM D942	6.2 (43)
Four-Ball Wear Scar, mm	ASTM D2266	0.52
Four-Ball EP, Weld Load, Kgf	ASTM D2596	315
Timken OK Load, lbs	ASTM D2509	50
Corrosion Prevention	ASTM D1743	Pass
Copper Corrosion	ASTM D4048	1b

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>.