PHILLIPS 66 LUBRICANTS

Dynalife® 220

Multipurpose

Extreme Pressure

Lithium Grease

Phillips 66® Dynalife 220 is a multipurpose, extreme pressure (EP), lithium grease developed for use in a wide variety of industrial and automotive applications. It is a versatile, general purpose grease for use in applications where operating temperatures and loads are moderate.

Dynalife 220 is manufactured with high quality base oils and a lithium 12-hydroxystearate soap thickener. It is fortified with EP and antiwear additives plus rust and oxidation inhibitors. It has good load carrying capacity to protect against wear and good oxidation resistance for long service life. It protects metal parts against rust and corrosion, and is resistant to water washout. It has good resistance to shearing and will not soften excessively during high speed operation in rolling element bearings maintaining a good seal to minimize bearing contamination.

Dynalife 220 is available in multiple grades for use in a wide variety of applications. It is an excellent grease for use in centralized lube systems. The semi-fluid grades may be used in enclosed industrial gearboxes where oil leakage is a problem.

Applications

- Plain and rolling-element bearings in compressors, fans, centrifugal pumps and other industrial equipment where operating temperatures and loads are moderate
- Chassis parts, universal joints and water pumps on passenger cars, light trucks and other mobile equipment
- Track rollers, commercial lawn mowers, crushers and vibrating screens (semi-fluid grades)
- Enclosed gear drives on industrial, mining and mobile equipment where oil leakage is a problem (semi-fluid grades)
- Wheel bearings of passenger cars equipped with drum brakes
- Centralized grease lubrication systems
- General purpose shop/industrial grease

Features/Benefits

- Multipurpose grease for use in a wide variety of applications
- Good EP and antiwear properties
- Excellent shear stability
- Good oxidation resistance and thermal stability
- Protects against rust and corrosion
- Excellent resistance to water washout
- Suitable for use in centralized lube systems

KEEPING THE WORLD RUNNING SMOOTHLY

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Typical Properties							
NLGI Grade		**000**	**00**	**0**	**1**	**2**	**3**
Thickener Type		Lithium	Lithium	Lithium	Lithium	Lithium	Lithium
Color		Amber	Amber	Amber	Amber	Amber	Amber
Texture		Smooth	Smooth	Smooth	Smooth/ Tacky	Smooth/ Tacky	Smooth
Density, lbs/gal		7.50	7.50	7.50	7.50	7.50	7.51
Dropping Point, °C (°F)	ASTM D2265	N/A	N/A	180 (356)	180 (356)	180 (356)	190 (374)
Viscosity, Kinematic	ASTM D445						
Viscosity @ 40°C, cSt		320	220	220	220	220	150
Viscosity @ 100°C, cSt		21.6	18.0	18.0	18.0	18.0	11.3
Penetration, Worked (60 strokes)	ASTM D217	445-475	400-430	355-385	310-340	265-295	220-250
Oxidation Stability, 100 Hours, psi (kPa)	ASTM D942	4.6 (32)	6.2 (43)	6.2 (43)	6.2 (43)	6.2 (43)	8.4 (58)
Four-Ball Wear Scar, mm	ASTM D2266	0.5	0.5	0.45	0.45	0.45	0.46
Four-Ball EP, Weld Load, Kgf	ASTM D2596	250	250	250	315	315	250

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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