



BLACK PEARL[®] GREASES EP

NLGI 0, 1, 2

PRODUCT DESCRIPTION

Black Pearl[®] Greases EP are multipurpose, polyurea, extreme pressure, water-resistant greases.

CUSTOMER BENEFITS

Black Pearl Greases EP deliver value through:

- **Excellent pumpability** — Easy pumping in typical centralized lubrication systems and at low temperatures.
- **High load capacity** — High film strength provide good overall EP performance, shock load protection and low wear protection.
- **Corrosion protection** — Pass the modified ASTM D1743 Bearing Rust Test.
- **Water resistance** — Product provides exceptional water wash out results.
- **Excellent adhesion** — These greases stay in place and continue lubricating under most operating conditions.
- **Long lubricant life** in storage and in use.

FEATURES

Black Pearl Greases EP are multipurpose, polyurea, extreme pressure, water-resistant greases.

Black Pearl Greases EP are formulated with highly refined base stock, a polyurea thickener, and rust and oxidation inhibitors. They are black in color and smooth and buttery in texture.

FUNCTIONS

Black Pearl Greases EP provide outstanding film strength and adhesive properties. As a result, these products are particularly effective in providing excellent wear protection in heavily loaded and shock load conditions.

Black Pearl Greases EP are formulated to stay in place, stick to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. They perform particularly well in roller bearings. These products provide exceptional water wash out results. The rust inhibitors effectively protect bearing surfaces against corrosion. Pumpability is excellent over a wide range of temperatures as indicated by the Lincoln ventmeter test and the relatively low pressure drop in piping. Oxidation inhibitors promote long life in storage and in use. In addition, Black Pearl Greases EP also perform well at high temperatures.

APPLICATIONS

Black Pearl Greases EP are recommended for general lubrication service in many types of automotive and industrial applications.

Typical industrial applications are:

- Presses
- Antifriction bearings
- Low and high speed journal bearings
- Roller and needle bearings
- Shaker or classifier screen bearings
- Conveyors and run out rolls
- Electric motor bearings (especially cylindrical roller bearings)
- Exhaust fan bearings
- Crusher bearings
- Pump bearings

Product(s) manufactured in the USA.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

A **Chevron** company product

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Typical automotive applications are:

- Chassis points including ball joints and universal joints
- Wheel bearings
- Water pumps
- Fifth wheels
- Steering system bearings
- King pins

Black Pearl Greases® EP NLGI 1 and 2 are approved for the NLGI Certification Mark GC-LB for use as automotive chassis and wheel bearing greases based on ASTM D4950. They work well in both plain and antifriction-type bearings, particularly those subjected to shock loading.



Black Pearl Greases EP are registered by **NSF** and are acceptable as a lubricant where there is no possibility of food contact (H2) in and around food processing areas. The NSF Nonfood Compounds Registration Program is a continuation of the USDA product approval and listing program, which is based on meeting regulatory requirements of appropriate use, ingredient review and labeling verification.

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TYPICAL TEST DATA

NLGI Grade	0	1	2
<i>Product Number</i>	254590	254592	254591
<i>MSDS Number</i>	7237	7237	7237
Operating Temperature, °C(°F)			
Minimum ¹	-40(-40)	-40(-40)	-40(-40)
Maximum ²	127(260)	177(350)	177(350)
Penetration, at 25°C(77°F)			
Unworked	350	320	255
Worked (60 strokes)	365	325	280
Worked (100,000 strokes)	>400	360	335
Dropping Point, °C(°F)	240(464)	270(518)	270(518)
Timken OK Load, lb	55	70	70
Four-Ball			
Weld Point, kg	250	500	500
Wear Scar Diameter, mm	0.42	0.42	0.42
Lincoln Ventmeter, psig at 30 s at			
75°F	185	215	300
30°F	210	235	350
0°F	240	280	800
-22°F	465	625	→
Copper Corrosion	1a	1a	1a
Bearing Rust	Pass	Pass	Pass
Water Washout, 79 C, %	—	<1	<1
Thickener, %	9.5	11.5	13.5
Type	Polyurea		
Viscosity, Kinematic*			
cSt at 40°C	145	145	145
cSt at 100°C	14.4	14.4	14.4
Viscosity, Saybolt*			
SUS at 100°F	761	761	761
SUS at 210°F	77	77	77
Viscosity Index	97	97	97
Flash Point, °C(°F)*	260(500)	260(500)	260(500)
Pour Point, °C(°F)*	-9(+16)	-9(+16)	-9(+16)
Texture	Smooth, Buttery		
Color	Black		

Minor variations in product typical test data are to be expected in normal manufacturing.

- 1 Minimum operating temperature is the lowest temperature at which a grease, already in place, could be expected to provide lubrication. Most greases cannot be pumped at these minimum temperatures.
 - 2 Maximum operating temperature is the highest temperature at which the grease could be used with frequent (daily) relubrication.
- * Determined on mineral oil extracted by vacuum filtration.
 → Too stiff at this temperature to pump through device.