BLACK PEARL® GREASE EP

NLGI 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** — Passes the 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 (only when roller bearings are in use)
- 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

30 November 2016
GR-10

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 NLGI GC-LB-certified 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	Test Method	1	2
Product Number		*254592*	*254591*
SDS Number		*7237*	*7237*
Operating Temperature, °C(°F) Minimum[a] Maximum[b]		 -40(-40) 177(350)	 -40(-40) 177(350)
Penetration, at 25°C(77°F) Unworked Worked (60 strokes) Worked (100,000 strokes)	ASTM D217	 320 325 360	 255 280 335
Dropping Point, °C(°F)	ASTM D2265	270(518)	270(518)
Timken OK Load, lb	ASTM D2509	70	70
Four-Ball Weld Point, kg Wear Scar Diameter, mm	ASTM D2596	 500 0.42	 500 0.42
Lincoln Ventmeter, psig at 30 s at 75°F 30°F 0°F -22°F	K95400	 215 235 280 625	 300 350 800 †
Copper Corrosion, rating	ASTM D4048	1a	1a
Bearing Rust Protection	ASTM D1743	Pass	Pass
Water Washout, 79°C, %	ASTM D1264	<1	<1
Thickener, %		11.5	13.5
Type		Polyurea	Polyurea
Viscosity, Kinematic* cSt at 40°C cSt at 100°C	ASTM D445	 145 14.4	 145 14.4
Viscosity, Saybolt* SUS at 100°F SUS at 210°F	ASTM D2161	 761 77	 761 77
Viscosity Index*	ASTM D2270	97	97
Flash Point, °C(°F)*	ASTM D92	260(500)	260(500)
Pour Point, °C(°F)*	ASTM D97	-9(+16)	-9(+16)
Texture		Smooth, Buttery	Smooth, Buttery
Color		Black	Black

a 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.
b Maximum operating temperature is the highest temperature at which the grease could be used with frequent (daily) relubrication.
† Too stiff at this temperature to pump through device.
* Determined on base fluid extracted by vacuum filtration.

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