Black Pearl EP

(Previously known as Black Pearl Grease EP NLGI)

High performance multipurpose polyurea grease

Product description

Black Pearl™ Grease EP is a high performance multipurpose polyurea grease, formulated with mineral base stocks in combination with extreme pressure (EP) additives.

Black Pearl Grease EP is suitable for lubrication service in automotive and industrial applications.

Customer benefits

- Helps provide good film strength and highly adhesive protection performance.
- Promotes high performance wear protection in heavily loaded and shock conditions.
- Contributes good lubrication performance under a wide range of temperatures and operating conditions.
- Promotes effective water washout resistance.
- Aids robust rust and corrosion protection in components including bearings.
- Contributes to effective wide temperature pumpability.
- Oxidation inhibitors promote long life in storage and in use.
- Offers good performance at high temperatures.
- Wide range of automotive and industrial applications.

Product highlights

- **Provides good film strength to aid highly adhesive protection**
- **Promotes high performance wear protection**
- **Contributes to good lubrication performance**
- **Promotes effective water washout resistance**
- **Aids robust rust and corrosion protection**

Selected specification standards include:

DIN	ISO
NLGI	NSF

Applications

Black Pearl Greases EP are suitable for lubrication service in automotive and industrial applications.

Typical industrial applications are:

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

Typical automotive applications are:

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

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.

Approvals, performance and suitable for use

Approvals

- Registered by NSF as H2

Performance

NLGI Certification mark GC-LB, for use as automotive chassis and wheel bearing grease according to ASTM D4950

Black Pearl EP	DIN 51502	ISO 6743-09	Operating temperature
EP 1	KP 1 K-40	ISO-L-XDCHB1	-30°C up to 140°C
EP 2	KP 2 P-20	ISO-L-XCDHB2	-20°C up to 160°C

Product maintenance and handling

Maintain a clean work environment is critical when equipment greases is performed Grease fittings should be wiped clean prior to grease injection to prevent contaminants from entering the equipment. Bearing houses should be maintained one-third to on-half full of grease. Over-greasing should be avoided as it can result in excessive heat build-up. Periodic relubrication via grease gun or centralized system should be supplemented by complete cleaning and packing with fresh grease in an appropriate schedule.

Old grease should be flushed as much as possible out of the system before applying new grease in order to avoid compatibility problems. For compatibility of greases, contact your local technical representative.

Typical test data

Test	Test Methods	Results	
Viscosity Grade		**NLGI 1**	**NLGI 2**
Shelf Life: 36 months from date of filling indicated on the product label			
Appearance		Black Smooth,buttery	
Thickener type	DIN 51814	Polyurea	
Thickener content, %		11.5	13.5
Base oil Type		Mineral	Mineral
Base oil viscosity at 40°C, mm²/s*	DIN 51562	145	145
Penetration unworked	ISO 2137	320	255
Penetration worked, 60x, 0.1mm	ISO 2137	325	280
Penetration worked 100.000x, 0.1mm	ISO 2137	360	335
Dropping point, °C	ISO 2176	270	270
Copper corrosion 48hrs/120°C	DIN 51811	1	1
EMCOR Corrosion test, distilled water	ISO 11007	0/0	0/0
Water resistance static	DIN 51807-1	1-90	1-90
Water resistance dynamic at 79°C, %	DIN 51807-2	<1	<1
Four Ball Weld Load, kg	ASTM D2596	500	500
Four Ball Wear Scar,mm	ASTM D2596	0.42	0.42
Timken OK load, lb	ASTM D2509	70	70
Lincoln Ventmeter, psig at 30 sec at:	K95400		
24°C		215	300
-1.1°C		235	350
-17.8°C		280	800
-30°C		625	-

The typical test data set out above does not constitute a specification. It is indicative only and can be affected by allowable production tolerances. Chevron may modify this test data. Modified data will supersede all previous data, so please ensure you refer to the latest version of this Product Data Sheet (PDS).

*base oil viscosity at 40°C: determined on base fluid extracted by vacuum destillation

Disclaimer: Data provided in this Product Data Sheet (PDS) is based on standard tests under laboratory conditions and is indicative only. This product should not be used for any purpose other than those expressly set out in this PDS. The user has sole responsibility for verifying that this product is suitable for the user's intended application. Neither Chevron nor its subsidiaries (i) make any warranty or representation as to the accuracy or completeness of this PDS; and/or (ii) accept liability for any loss or damage suffered as a result of the use of this product other than in accordance with the terms of this PDS.

When disposing of used product, take care to protect the environment and follow local legislation.

Safety Data Sheets (SDS's) are available for all Chevron products. If you require a SDS or any further information regarding a Chevron product, please contact your local sales office or see www.texacolubricants.com.

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