



Black Pearl[®] Grease EP

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 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 reliable 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 excellent 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

- **Helps provide critical, durable oil film strength**
- **Promotes wear protection**
- **Wide temperature performance**
- **Aids water washout resistance**
- **Contributes wide temperature pumpability**

Selected specification standards include:

ASTM	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

Approvals, performance and recommendations

Approvals

- NLGI Certification mark GC-LB, for use as automotive chassis and wheel bearing grease according to ASTM D4950
- Registered by NSF as H2

Performance

Black Pearl Grease EP	DIN 51 502	ISO 6743-09	Operating temperature
EP 0	KP 0 K-40	ISO-L-XDCHB 0	-40°C up to 127°C
EP 1	KP 1 N-30	ISO-L-XCDHB 1	-30°C up to 149°C
EP 2	KP 2 P-20	ISO-L-XBEHB 2	-20°C up to 160°C

Typical test data				
Test	Test methods	Results		
NLGI Grade	DIN 51 818	0	1	2
Product Code		254590	254592	254591
Soap type	DIN 51 814	Polyurea	Polyurea	Polyurea
Dropping Point, °C	ISO 2176	240	270	270
Oil type	-	Mineral	Mineral	Mineral
Base oil viscosity at 40 °C, mm ² /s	DIN 51 562	145	145	145
Penetration worked, 0.1 mm	ISO 2137	365	325	280
Emcor corrosion, distilled water	ISO 11007	0/0	0/0	0/0
Water resistance static	DIN 51 807/1	1-90	1-90	1-90
Water resistance dynamic at 79 °C	DIN 51 807/2	-	<1	<1
Four Ball weld Point, kgf	ASTM D2596	250	500	500
Four Ball wear scar, mm 1h at 75 °C, 1200 rpm, 40 kg	ASTM D2266	0.5	0.5	0.5

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

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