



Black Pearl Syn HD 2

High performance extreme temperature grease

(Previously known as High Temp Premium 2)

Product description

Black Pearl Syn HD 2 is an extreme temperature grease designed to offer long-term friction resistance and wear protection in plain and roller bearings across a wide range of speeds, even when subjected to high temperatures, heavy loads and corrosive environments.

Black Pearl Syn HD 2 is a polyurea grease, formulated with a synthetic base oil (PAO) and high-performance extreme Pressure (EP) additives, designed to offer bearing protection.

Customer benefits

- Designed for long-term bearing wear and corrosion resistance, with improved service life across a wide temperature window.
- Helps deliver high temperature plain and roller bearing protection with long-term oxidation stability.
- Formulated for good and effective water resistance and bearing corrosion protection.
- Contributes to good wear protection at speed index (n x dm) 400,000.
- Advanced formulation helps resist hard residue formation.

Product highlights

- **Designed for long-term bearing wear and corrosion resistance**
- **Helps deliver high temperature plain and roller bearing protection**
- **Formulated for good and effective water resistance**
- **Contributes to high speed wear protection**
- **Helps resist hard residue formation**

Selected specification standards include:

Danieli	DIN
Dynapac Paver	ISO
SM Group	

Applications

Offers protection to bearings subjected to extreme temperatures, such as bearings in annealing and drying furnaces, rotary kilns, cooling beds, conveyor systems, hot air fans, electric motors, exhaust gas fans for aggressive media, stop valves of bulk material equipment, ejector pins in plastic-cast tools, gates and valves in bulk material containers systems.

Approvals, performance and suitable for use

Approvals

- Danieli
- Dynapac Paver
- SM Group SN 180-1

Performance

	DIN 51 502	ISO 6743-09	Operating temperature
Black Pearl Syn HD 2	KPHC 2 R-30	ISO-L-XCFHB 2	-30°C up to +180°C, with frequent lubrication up to +200°C (for short periods)

Suitable for Use

Recommended for concasters applications.

Product maintenance and handling

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

Typical test data		
Test	Test Methods	Results
NLGI grade		2
Typical Shelf Life: 36 months from date of filling indicated on the product label		
Appearance	Visual	Beige
Penetration worked, mm/10	ISO 2137	279
Thickener type		Polyurea
Base oil type		PAO
Base oil viscosity at 40°C, mm ² /s (pure base oil mix)	ASTM D445	400
Dropping Point, °C	IP 396	>240
Worked Penetration, 60x, mm/10	ISO 2137	279
Oil Bleeding at 40°C, %	DIN 51 817	1.8
Emcor corrosion test, distilled	DIN 51 802	Pass
Emcor corrosion test, 5% salt water	DIN 51 802	Pass
Emcor corrosion test, Acid water	DIN 51 802	Pass
Copper corrosion at 24hrs/100°C	DIN 51 811	0
Four ball EP, weld load, kgf	ASTM D2596	>260
Four ball Wear, method E, mm	DIN 51 51350/5	0.7
Four ball EP, N	DIN 51350/4	>2600
FAG FE9(A/1500/6000-180°C),hrs	DIN 51 821	F ₅₀ = 159.8 F ₁₀ : 153.5
Wheel bearing Life, B50, hrs	ASTM D3527	>300

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).

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