Novatex®

Proven performance industrial and automotive greases

Product description

Novatex calcium and lithium greases offer reliable high adhesion and stay-in-place performance in severe wet and corrosive environments. They are suitable for marine, agriculture, construction, off-road and heavy-duty industrial applications.

The Novatex thickener system in combination with a special base oil blend makes these greases suitable for the lubrication of medium to heavily loaded bearings.

Customer benefits

- Designed for dependable oxidation protection
- Offers robust water and corrosion resistance
- Promotes efficient pumpability
- Formulated for Extreme Pressure applications

Product highlights

- **Designed for oxidation protection**
- **Offers water and corrosion resistance**
- **Promotes pumpability**
- **Formulated for EP applications**

Selected performance standards include

DIN	Hoesch Rothe Erde

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.

Applications

Novatex EP 2

- Novatex EP 2 is a proven performance multipurpose grease for industrial and automotive applications. It is suitable for a wide range of plain and rolling bearings.

Novatex HD 2

- Novatex HD 2 is a lithium/calcium thickened grease. The high viscosity base oil blend and EP/AW additives makes the product suitable for heavily loaded bearings in slow moving applications in wet environments, where water wash-out is a problem, and in corrosive environments.
- The product is also suitable for heavy-duty vehicles working in wet and dirty conditions.

Novatex Heavy EP0 and EP2

- The Novatex Heavy EP0 and EP2 high viscosity base oil blend with EP/AW additives, makes the product suitable for heavily loaded bearings in slow moving applications in wet environments, where water wash-out is a problem, and in corrosive environments.
- These products have been specially developed for marine applications and as universal greases for forestry, mining, agricultural and construction vehicles. For low temperatures, Novatex Heavy EP0 is recommended.

Novatex Heavy M EP 2

- The Novatex Heavy M EP2 high base oil viscosity blend and EP/AW additives makes the product suitable for heavily loaded bearings in slow moving applications in wet environments, where water wash-out is a problem, and in corrosive environments.
- The products have been specially developed for marine applications and as universal greases for forestry, mining, agricultural and construction vehicles.
- The addition of MoS_2 and graphite gives extra protection in applications with slow moving or oscillating bearings, or applications with shock loads.
- Lubricating greases with MoS_2 and graphite are not suitable for high speed roller bearings.

Approvals, performance and suitable for use

Approvals

- Hoesch Rothe Erde

Performance

	DIN 51 502	ISO 6743-09	Operating temperature
Novatex EP 2	KP2K-30	ISO-L-XC(F)CIB2	-30°C up to 120°C
Novatex HD 2	KP2K-20	ISO-L-XB(F)CHB2	-20°C up to 120°C (max 130°C)
Novatex Heavy EP 0	KP0K-40	ISO-L-XD(F)CHB0	-40°C up to 120°C (max 130°C)
Novatex Heavy EP 2	KP2K-30	ISO-L-XC(F)CIB2	-30°C up to 120°C (max 130°C)
Novatex Heavy M EP 2	KPF2K-30	ISO-L-CX(F)CIB2	-30°C up to 120°C (max 130°C)

Temperature range is given as guideline only.

Suitable for use

Novatex EP 2:

- POM, HDPE, Perbunan and Viton and all plastic parts used by Hoesh Rothe Erde at up to 70°C
- The Perbunan and Viton seals have been tested for 168h at 70°C, the distance keepers (POM, HDPE) 24 weeks at 70°C

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 a centralised system should be supplemented by complete cleaning and packing with fresh grease on an appropriate schedule.

Avoid any spillage of used and unused product to the environment. Product residue and package/containers should be disposed of in dedicated collection points.

Typical test data

Test	Test Methods	Results	
Novatex Product Name		**EP 2**	**HD 2**
NLGI Grade		**2**	**2**
Typical Shelf Life: 36 months from date of filling indicated on the product label*			
Thickener Type		Anhydrous Calcium	Calcium/Lithium
Texture		Smooth	Tacky
Color	Visual	Yellow	Brown
Base Oil Type		Mineral	Mineral+polymer
Base Oil Viscosity at 40°C, mm²/s	ASTM D7152	220	1100
Base Oil Viscosity at 100°C, mm²/s	ASTM D7152	15	48
Penetration worked, 60 strokes, mm/10	DIN ISO 2137	265-295	265-295
Dropping Point, °C	DIN ISO 2176	>140	>180
Emcor corrosion test, distilled, stage	DIN 51 802	0-0	0-0
Copper Corrosion, 24 hrs at 100°C	DIN 51 811	1B	1B
R2F test, method B at 120°C	Former DIN 51 806	Pass	Pass
Four Ball Wear, method E Scar diameter, mm	DIN 51350/1,5	0.4	0.4
Four Ball Weld Load, N	DIN 51350/1,4	>3600	>4000

* Typical Shelf Life: (a) if stored under normal conditions and (b) can be extended after re-testing.

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).

Typical test data

Test	Test Methods	Results		
Product Name		**Heavy EP 0**	**Heavy EP 2**	**Heavy M EP2**
NLGI Grade		**0**	**2**	**2**
Typical Shelf Life: 36 months from date of filling indicated on the product label*				
Thickener Type	—	Calcium Anhydrous		
Texture	—	Smooth, Tacky		
Color	Visual	Yellow-Brown	Brown	Black-Grey
Base Oil Type	—	Mineral + polymer		
Base oil viscosity at 40°C, mm²/s	DIN 51 562	1300	1300	1300
Base oil viscosity at 100°C, mm²/s	DIN 51 562	>106	>106	>106
Penetration worked, 60x, mm/10	ISO 2137	355-385	265-295	265-295
Pen. Change 60/100000x, mm/10	ISO 2137	—	>50	>50
Dropping point, °C	ISO 2176	>120	>120	>120
Emcor corrosion test distilled water	DIN 51 802	0/0	0/0	0/0
Copper Corrosion 24hrs/100°C	DIN 51 811	1	1	1
Oil Bleeding, % (7 days at 100°C)	DIN 51 817	—	1.15	0.94
R2F test, method B at 120°C	Former DIN 51 806	Pass	Pass	Pass
Oxidation stability Pressure drop after 100h/99°C, hPa	DIN 51 808	—	300	300
Timken OK, lb	ASTM D2782	—	50	50
Four Ball weld Load, N	DIN 51 350/1,4	>2600	2800	3400
Four Ball Wear, scar diameter, mm	DIN 51 350/1,5	0.5	0.45	0.77

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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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