



Starplex EP 1

High performance multi-purpose grease

Product description

Starplex EP 1 is a high performance long-service grease, designed for a wide range of industrial and automotive applications.

Starplex EP 1 is a lithium complex thickened grease based on mineral oils, formulated with high performance extreme pressure, anti-wear, and anti-corrosion additives.

Customer benefits

- Proven long-term lubrication performance in both laboratory- and field-testing across wide temperature conditions.
- Mechanically stable formulation aids lubrication of bearings which are subject to strong vibrations.
- Formulated to promote long-term corrosion protection in the presence of water or aggressive atmospheres.
- Good sealing properties provide reliable dust, dirt, and water resistance.
- Tough oil film strength and strong adhesive performance contribute to long-term component protection.

Product highlights

- **Proven long-term lubrication performance across wide temperature conditions.**
- **Mechanically stable formulation for high vibration bearing applications.**
- **Formulated to promote long-term corrosion protection.**
- **Good sealing properties.**
- **Tough oil film strength and strong adhesive performance.**

Selected specification standards include:

DIN

ISO

Applications

Starplex EP 1 is used for lubricating machines and components which are subjected to high thermal and mechanical loads over a long service life, requiring an NLGI 1 grease.

- Chassis lubrication
- Highway and off-highway applications
- Construction equipment
- Agricultural tractors, farm equipment
- General industrial greasing
- Marine applications
- Special do-it-yourself machines and household appliances.

Starplex EP 1 has been tested in applications involving extreme pressures, vibrations, impact stress, wet conditions, dust and in the presence of plastic seals.

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.

Approvals, performance and suitable for use

Performance

	DIN 51 502	ISO 6743-09	Operating temperature
Starplex EP 1	KP 1 K-30	ISO-L-XC(F)CHB 1	-30°C up to 120°C (max 130°C)

Typical test data		
Test	Test Methods	Results
Typical Shelf Life: 36 months from date of filling indicated on the product label		
Appearance	Visual	Green
Texture		Smooth
NLGI Grade	ASTM 217 mod	1
Penetration worked, mm/10	ISO 2137	310-340
Thickener type		Lithium Complex
Base oil type		Mineral
Base oil viscosity at 40°C, mm ² /s (pure base oil mix)	ASTM D445	220
Dropping Point, °C	ISO 2176	>250
Copper corrosion, 24h/100°C	DIN 51 811	1B
Emcor distilled water	DIN 51 802	0/0
Water resistance static, %	DIN 51 807	0/90
Water wash out at 38°C, %	ISO 11009	<10%
Four ball weld load, N	DIN 51 350/4	2600

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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