



Starplex CG 2

High performance industrial coupling grease

(Previously known as Coupling Grease EP 2)

Product description

Starplex CG 2 is a polyethylene thickened lithium complex grease with high base oil viscosity designed for high centrifugal force and high-torque applications where severe shock loadings, misalignment and vibration occur.

Starplex CG 2 is formulated with a combination of a special thickener and high viscosity base oil/polymer, antioxidants, corrosion inhibitors, EP/AW additives, and is designed to retain its structure under high centripetal acceleration and prevent leakage, even under In the ASTM D 4425 High Speed Centrifugal Test, which develops G forces more than 36,000 at 15,000 rpm.

Customer benefits

- Formulated to offer good resistance to centrifugal separation, aiding component protection.
- Designed to perform over a long service life to help reduce maintenance and grease recharge requirements.
- Offers effective coupling protection in load carrying applications.
- Water washing resistance offers good corrosion protection in wet environments.
- Suitable for use across a wide temperature range from -40°C up to 120°C.

Product highlights

- **Formulated to offer good resistance to centrifugal separation**
- **Designed for long service life to help reduce maintenance requirements**
- **Offers effective coupling protection in load carrying applications.**
- **Formulated for good water washing resistance**
- **Suitable for use across a wide temperature range**

Selected specification standards include:

AGMA	DIN
Esco Aandrijvingen BV	Esco Drives
Esco Transmissions	ISO
Renk	

Applications

Starplex CG 2 is recommended for all types of grease lubricated couplings used in industrial equipment.

Common grease lubricated couplings include:

- Geared couplings which have internal and external spur gears that mesh within a common rotating hub connecting the shafts.
- Steel grid couplings which have a convoluted band of flexible spring steel physically linking the hubs together.
- Flexible chain couplings which have a roller chain that meshes with a sprocket cut in each mating hub.

Starplex CG 2 is mainly intended for flexible couplings working at very high centripetal accelerations where the grease is exposed to high centrifugal forces, which can induce a separation of the thickener from the lubricant but can also be recommended for other applications working under similar circumstances.

The high viscosity base oil/polymer mix makes Starplex CG 2 suitable for use in other industrial and marine applications where the equipment is subject to high water wash, low speeds and heavy or shock loads.

Starplex CG 2 in a static situation is very solid, but as the yield stress of 1000 Pa is exceeded, the viscosity of the product is rapidly approaching the viscosity of the base oil.

Starplex CG 2 is recommended for many types of grease lubricated couplings used in trains, metro transits and can also be used in the couplings on high-speed transport cars.

Approvals, performance and suitable for use

Approvals

- Esco Drives (approval request submitted)

Performance

- AGMA 9001-C18 (Type CG-1; CG-2 and CG-3)

	DIN 51 502	ISO 6743-09	Operating temperature
Starplex CG 2	GP2M10	ISO-L-XA(F)CHB2	-10°C up to 120°C (max 140°C)

Suitable for use

- Esco Aandrijvingen BV
- Esco Transmissions
- Renk

Product maintenance and handling

The tacky nature of the product makes hand packing the preferred method of lubricating newly installed couplings to ensure even distribution throughout. Normal handling precautions should be observed as with any petroleum-based products. Consult the coupling manufacturers' installation instructions for detailed lubricant application procedures. The following procedure outlines a popular lubrication method. Prior to assembly of gear couplings, a coating of grease should be applied to gear teeth. After hand packing, the coupling should be rotated so the grease fitting reaches 4 o'clock and the fitting/plug removed. A short length of 1/4 inch pipe can be affixed, and grease pumped into the coupling until product is observed flowing out the purge opening at 10 o'clock. The pipe should then be removed, and the plugs reinserted. This practice ensures that the coupling is adequately lubricated. Routine relubrication can be accomplished with disassembly using this method. The grease will then be evenly distributed to all moving and sliding surfaces and the full benefits of the product will be realized. Special care needs to be taken when filling "Full Travel" type couplings, so the correct amount of grease is charged. Avoid any spillage of used and unused product to the environment. Product residue, packages and containers should be disposed of at dedicated collection points.

Typical test data		
Test	Test Methods	Results
Typical Shelf Life: 36 months from date of filling indicated on the product label		
Appearance	Visual	Brown Tacky
NLGI grade	ASTM D217 mod	2
Penetration worked, mm/10	ISO 2137	280
Thickener type		Lithium Complex/polyethylene
Base oil type		Mineral
Base oil viscosity at 40°C, mm ² /s (pure base oil mix)	ASTM D445	650
Base oil viscosity at 40°C, mm ² /s (base oil mix+polymers)	ASTM D445	>3200
Dropping Point, °C	IP 396	228
Flow pressure at -10°C, mabr	DIN 51805	<1400
Bearing corrosion test	ASTM D2596	Pass
Copper Corrosion, 24h/100°C	ASTM D4048	1B
Koppers Method, K36,24hrs, %	ASTM D4425	<24
FE9 (120°C,3000rpm,1500N),h	DIN 51821	>100
Density at 15°C, kg/l	IP 530	0.890

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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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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