



Multifak CG

High performance industrial coupling grease

(Previously known as Coupling Grease)

Product description

Multifak CG is a high performance industrial NLGI 1 coupling grease designed for use in high centrifugal force and high-torque applications where severe shock loadings, misalignment and vibration occur.

Multifak CG is formulated with a lithium/polymer thickener with inhibitors to protect against corrosion, oxidation, extreme pressure and rust. The combination of a special thickener and high viscosity base oil/polymer helps prevent the grease from separating in extreme applications.

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	Esco Couplings Ltd
Esco Couplings srl	Esco Aandrijvingen BV
Esco Antriebstechnik GMBH	Esco Drive
DIN	Falk
Fast	ISO
Jaure	Koppers
Renk	Wartsila

Applications

Multifak CG is recommended for many 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.

Multifak CG is designed to perform beyond the normal six-month change interval. In field experience this grease has shown its ability to perform satisfactorily beyond three years.

This product should be used in grease couplings that are especially hard to service regularly and those operating under severe conditions.

The high viscosity base oil/polymer mix makes Multifak CG 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.

Multifak CG 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

- DIN 51502: GOGP1K-40
- ISO 6743-09: ISO-L-XD(F)CIB1
- AGMA 9001-C18 (Type CG-1; CG-2 and CG-3)
- Operating temperature: -40°C up to 120°C (max 140°C)

Suitable for use

- Esco Aandrijvingen BV
- Esco Antriebstechnik GmbH
- Esco Couplings Ltd
- Esco Couplings srl
- Esco Drive
- Falk
- Fast
- Jaure
- Koppers
- Renk
- Wartsila

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	Dark Brown, Smooth & Tacky
NLGI grade	ASTM D217 mod	1
Penetration worked, mm/10	ISO 2137	349
Thickener type		Lithium/polymer
Base oil type		Mineral
Base oil viscosity at 40°C, mm ² /s (pure base oil mix)	ASTM D445	700
Base oil viscosity at 40°C, mm ² /s (base oil mix+polymers)	ASTM D445	>3200
Dropping Point, °C	IP 396	215
Bearing corrosion test	ASTM D2596	Pass
Copper Corrosion, 24h/100°C	ASTM D4048	1B
Koppers Method, K36,24hrs, %	ASTM D4425	<3
Four ball Weld load, kgf	IP 239	250
Density at 15°C, kg/l	IP 530	0.92
Guide to usable Temperature, °C (Esco Couplings test)		-40

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).

Disclaimer: Data provided in this Product Data Sheet (PDS) is based on standard tests under laboratory conditions and is indicative only. This product should not be used for any purpose other than those expressly set out in this PDS. The user has sole responsibility for verifying that this product is suitable for the user's intended application. Neither Chevron nor its subsidiaries (i) make any warranty or representation as to the accuracy or completeness of this PDS; and/or (ii) accept liability for any loss or damage suffered as a result of the use of this product other than in accordance with the terms of this PDS.

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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