Multifak® CG

High Performance Industrial Coupling Grease (formerly Coupling Grease)

Product Description

Multifak® CG is a high-performance industrial coupling grease with a consistency which overlaps NLGI grades 0 and 1, recommended by Chevron for a variety of grease lubricated couplings used in industrial equipment.

It is formulated with a lithium/polymer thickener with inhibitors to help 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 applications with high centrifugal forces, and high-torque applications where severe shock loadings, misalignment and vibration occur.

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.
- Formulated to stay in place in high-speed operations.
- Suitable for use across a wide operating temperature range from -30°C up to 120°C.

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Applications

Multifak® CG is recommended by Chevron for a variety 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.

Chevron recommends this product for use 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 by Chevron for many types of grease lubricated couplings used in trains and metro transits, and can also be used in the couplings on high-speed transport cars.

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Product approvals, performance and recommendations

Developed independently by Chevron to comply with the following performance standards and specifications:

MULTIFAK® CG	
ANSI / AGMA CG-1, CG-2, CG-3	Meets the requirements
DIN 51 502: GOGP1K-40	Meets the requirements
ISO 6743-9: ISO-L-XD(F)CIB1	Meets the requirements

Consult OEM representatives for independent verification, updates and recommendations.

Product maintenance and handling

The tacky nature of the product makes hand packing the preferred method for use in 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 is applied to gear teeth.
- After hand packing, the coupling is 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 is then removed, and the plugs reinserted. This practice helps ensure 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 realised. 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 or unused product into the environment. Product residue, packages and containers should be disposed of at dedicated collection points

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Typical Test Data

MULTIFAK® CG	TEST METHOD	RESULTS
Product Code		**540943**
Minimum Operating Temperature, °C		-30
Maximum Operating Temperature, °C		120
Thickener Content, mass %	Calculated	Lithium
Dropping Point, °C	ASTM D566	215
Color	Observation	Dark brown
ISO Viscosity Grade Base Oil Equivalent		680
BOBV Kinematic Viscosity,		
mm^2/s @ 40°C	ASTM D445	680
mm^2/s @ 100°C	ASTM D445	26.6
Density of Grease, 15 g/mL	IP PM-CS/03	0.92
Worked Penetration, 60 mm/10	ASTM D217	330
Prolonged Penetration, 10000 mm/10	ASTM D217	395
Weld Point, kg	ASTM D2596	400

ENVIRONMENT, HEALTH, and SAFETY. Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions, and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit the Product Information Center.

This Product Data Sheet (PDS) was produced for the Asia-Pacific region in good faith from the best information available at the time of issue. The specific information included may not directly reflect the local market or conditions. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. For the most up-to-date, country-specific information, please contact your local customer service center.

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