

## Tribol GR 3785/220-1.5

Lubricating Grease for High Performance Systems

### Description

CASTROL TRIBOL™ GR 3785/220-1.5 (previously named Tribol™ 3785/220-1.5) is a multi-service bearing grease designed for high-performance systems. It offers lubricating advantages under adverse conditions and meets the following performance characteristics:

- Broad service temperature application range
- Excellent shear stability
- Extended lifetime
- Superior antiwear and load-carrying capabilities
- Increased water resistance
- Good pumpability characteristics, especially in long line central lubrication systems
- Good corrosion protection

Due to the above characteristics CASTROL TRIBOL GR 3785/220-1.5 is mainly applied in the paper and the food and beverage industry, as well as in the automotive, steel and mining industry. It is based on a mixture of mineral and synthetic oil of ISO viscosity grade 220, thickened with a lithium soap.

CASTROL TRIBOL GR 3785/220-1.5 grease is available in NLGI grade 1.5. It contains a blend of additives, which provide outstanding antiwear and EP characteristics for extreme operating conditions. Effective rust and oxidation inhibitors provide rust protection and high ageing resistance.

### Application

- CASTROL TRIBOL GR 3785/220-1.5 is applicable in antifriction and plain bearings, as well as general lubricating points, especially in those cases where a high resistance against process water or dust is required.
- CASTROL TRIBOL GR 3785/220-1.5 is recommended for an operating temperature of  $-40\text{ }^{\circ}\text{C}$  to  $120\text{ }^{\circ}\text{C}$ . Maximum temperatures of  $140\text{ }^{\circ}\text{C}$  are possible.
- Apart from the manual relubrication by means of grease guns, CASTROL TRIBOL GR 3785/220-1.5 is especially designed to be used in central lubrication systems, even at extremely low temperatures.

### Conditions of Use

- If CASTROL TRIBOL GR 3785/220-1.5 is used in very long lubricating lines at temperatures below  $-35\text{ }^{\circ}\text{C}$ , heating of the pipes may be necessary.
- CASTROL TRIBOL GR 3785/220-1.5 should not be mixed with lubricants of a different basis. In case of higher temperatures, the relubrication periods should be checked carefully.
- CASTROL TRIBOL GR 3785/220-1.5 exceeds the minimum requirements for KP lubricants according to DIN 51825.

### Advantages

- The broad application range allows reduced stock-keeping and minimizes the risk of lubricant mixing.
- The synthetic base oil component provides a tough lubricating film over a broad temperature range. The chemical/ physical stability ensures prolonged relubrication intervals.
- The good corrosion protection properties, and the excellent water stability of CASTROL TRIBOL GR 3785/220-1.5 offer optimum protection of the components, even under unfavourable ambient conditions, such as severe water contamination due to production processes or alternating climate.

- Even in longer central lubrication systems, CASTROL TRIBOL GR 3785/220-1.5 is easily pumpable.

## Typical Characteristics

Name	Method	Units	Tribol GR 3785/220-1.5
DIN Classification	DIN 51502	-	KP 1 ½ K-40
Thickener type	-	-	Lithium Soap
Worked Penetration (60 strokes @ 25°C / 77°F)	ASTM D217 / ISO 2137	0.1 mm	290 - 320
Dropping Point	ASTM D566 / ISO 2176	°C/°F	>180/>356
Water Resistance	DIN 51807-1	Rating	0-90
Base Oil Viscosity @ 40°C / 104°F	ASTM D445 / ISO 3104	mm <sup>2</sup> /s	270
Base Oil Viscosity @ 100°C / 212°F	ASTM D445 / ISO 3104	mm <sup>2</sup> /s	25
Viscosity Index	ASTM D2270 / ISO 2909	-	125
Copper Corrosion (24 hrs, 100°C / 212°F)	ASTM D4048	Rating	1
Rust Test - EMCOR (distilled water)	ASTM D6138 / ISO 11007	Rating	≤ 0/1
Four Ball Wear test - Weld Load	DIN 51350-4A	N	2800
Four Ball Wear test - Wear Scar Diameter	DIN 51350-5E	mm	<1.0
Grease Pumpability test - Lincoln Ventmeter @ -20°C	US Steel test method	psi	<500
Flow pressure @ -20°C / -4°F	DIN 51805	hPa	<350
Flow pressure @ -30°C / -22°F	DIN 51805	hPa	<800
Operating Temperature Range	-	°C	- 40/ +120

This product was previously named Tribol 3785/220-1.5. The name was changed in 2015.

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