Product Data

Castrol Tribol 5000

Spray grease for open gears

Description

CASTROL TRIBOL™ 5000 with TGOA™ is a new, sprayable high-performance open gear grease. It was especially developed for application in cement, mining and other heavy industries, to assure proper tribo-technical and economical maintenance of open gears through automatic spray systems.
CASTROL TRIBOL 5000 differs from conventional asphaltic type open gear lubricants, as it does not contain solvents nor solids.
Outstanding extreme pressure (EP) antiwear characteristics are derived from the latest development in the field of surface improving additives designated TGOA. The TGOA additive package outperforms all other EP and antiwear additives because of its unique action on frictional surfaces.
CASTROL TRIBOL 5000 is approved by major original equipment manufacturers.
• CASTROL TRIBOL 5000 is manufactured from mineral oil, selected for optimum physical and chemical stability, blended with special adhesive agents and thickened with aluminum-complex soap.
• The TGOA additive package is activated by high specific loads and corresponding temperatures causing a chemical-physical reaction. This results in an equalization of surface roughness without creating abrasion. Therefore, surface roughnesses are reduced without the loss of surface material.
• The results of the TGOA additives can be compared with a rolling process in the micro-range. The surface roughnessess are gradually leveled and smoothed.
• The load carrying area is increased with increased safety loads on tooth flanks at reduced friction levels.
• If, because of shock loads or stop-and-go operation, surface roughness peaks redevelop, the TGOA additive package is automatically reactivated. Surface roughness is again equalized and lubrication optimized.

Application

• CASTROL TRIBOL 5000 is a high-performance lubricant for open gears, wire ropes and similar applications.
• CASTROL TRIBOL 5000 was developed for application through automatic spray systems, but may also be applied manually. Heat or the addition of thinners is unnecessary.
• CASTROL TRIBOL 5000 is recommended for the use on slow-moving, heavily loaded open gears.
• It is also used to lubricate rack-and-pinion gears, wire ropes, slides, cams and other machinery in mills and mines and other heavy industries.
• Temperature range: -20°C up to + 120°C, +140°C intermittent.

Advantages

• CASTROL TRIBOL 5000 forms a very tough lubricating film on friction surfaces. This stable film offers excellent resistance to high loads even at slow speeds. In the FZG special test for grease (A/2.76/50) CASTROL TRIBOL 5000 reaches a scoring load stage of >12 with an extremely low specific wear of <0.20 mg/kWh.
• No additional wear on pistons or plugging of nozzles of automatic spray systems, as CASTROL TRIBOL 5000 does not contain solids.
• Regeneration of damaged frictional surfaces can occur on a microscale range.
• The lubricant film is resistant to weather and environmental influences.
• The stable protective lubricant film is easily and economically applied through automatic dispensing systems over a wide temperature range: -20°C up to + 120°C, 140°C intermittent.
• Increased life of machinery and lubricants.
• Extended lube intervals, reduced consumption and consequential reduction of maintenance and repair costs.

Typical Characteristics

Test	Method	Unit	Value
CASTROL TRIBOL	-	-	5000
NLGI grade	DIN 51818	-	0
Thickener	-	-	aluminium complex
Worked penetration	DIN ISO 2137	0.1 mm	355 - 385
Copper strip corrosion test 100°C, corrosion degree	DIN 51811	-	1
Base oil properties Viscosity at + 40°C at + 100°C	DIN 51366	mm²/s	 490 32
Behaviour in the presence of water at 90°C, rating	DIN 51807/1	-	1
FZG test (A/2. 76/50) scoring load stage Specific change in weight	-	- mg/kWh	> 12 < 0.20
Four ball EP test Weld load	DIN 51350-04-A	N	2000/2200

1 mm²/s ^ 1cSt

Subject to usual manufacturing tolerances

Additional Information

• CASTROL TRIBOL 5000 should not be mixed with greases of a different thickener.
• Relubrication intervals should be adjusted according to operating conditions

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