Product Data

Castrol Molub-Alloy 777 NG

Greases

Description

MOLUB ALLOY® 777 NG greases were designed for very heavy-duty service under severe ambient conditions. They are blended and compounded to withstand shock loads as well as heavy loads, conditions commonly found in the steel and construction industries, in mining and forestry.
• MOLUB ALLOY® 777 NG greases are made with a blend of high-viscosity mineral oils and polymers which produce a tough lubricating film capable of withstanding shock loads and vibrations.
• The shear-stable thickener provides an excellent sealing effect against contamination from the atmosphere, even if mechanical seals are damaged or missing (grease collar in the bearing).
• The lubricating greases contain solid lubricants whose structure is best suited for the rugged conditions in heavy industry. The solids are treated to increase their natural affinity to metal surfaces
• Corrosion and oxidation inhibitors maximize the corrosion protection and aging stability of the base oil.
• 777 NG greases are free of antimony, lead, zinc and other heavy metals.

Application

• Typical applications are in all types of rolling and sliding bearings, spindles, joint couplings (except for high-speed precision couplings), running gears, cams and general grease lubricating points, especially where heavy loads and low speeds prevail.
• MOLUB ALLOY® 777 NG greases are especially suited for the lubrication of heavy machines e.g. forging presses or hauling machines. Due to the extremely stable lubricating film, supported by the solid lubricant combination in the mixed friction area as well as the excellent sealing effect, a quantity reduction and an improved lubricating condition ca be ensured.

Advantages

• Due to their good adhesion these greases provide an optimum sealing effect.
• The MOLUB-ALLOY® solid lubricants achieve reduced friction in the boundary and mixed friction areas. This is most evident during frequent start-ups, low speeds and/or high loads as well as shock loads.
• Overall savings are derived from the above which in turn result in less repair work and downtime, longer service life of components and extended lubrication intervals.

Typical Characteristics

	Test method	Unit	Value
CASTROL MOLUB-ALLOY® 777 NG	-	-	**777/2 NG**
Colour		-	black
DIN classification	DIN 51502	-	KPF 2 K-20
NLGI grade	DIN 51818	-	2
Thickener (soap base)	-	-	lithium
Worked penetration	DIN ISO 2137	0.1 mm	265 - 295
Penetration drop after 100,000 strokes	-	-	max. 30
Dropping point	DIN ISO 2176	°C	> 190
Base oil properties: Viscosity at + 40°C at + 100°C Viscosity Index Flash point	 DIN 51366 DIN ISO 2592	 mm²/s °C	 860 60 94 > 220
Behavior in the presence of water at 90°C	DIN 51807/1	-	0
Rust prevention properties	ASTM D 1743	rating *	1
Emcor test	ISO 11007	rating *	0 / 0
Copper Strip Corrosion, 24 hrs, 100 °C	ASTM D 4048	rating *	1A
Timken EP test, OK load	DIN 51434-03	N	245
Four ball EP test Weld load	DIN 51350-04-A	N	≥ 4000
Four ball wear test Wear scar diameter	DIN 51350-05-E	mm	< 1.8
Flow pressure at – 20°C	DIN 51805	hPa	< 700
Operating temperature	-	°C	- 20 /+ 120

Subject to usual manufacturing tolerances.

Additional Information

• MOLUB ALLOY® 777 NG greases should not be mixed with lubricating greases which have a different thickener base.
• Lubrication intervals should be increased gradually to ensure complete removal of the previous lubricant and to guarantee the deposit of the solid lubricant layer at the lubricating points.
The greases may be applied with a manual grease gun or via automatic dispensing systems which are suited for the given worked penetration.

Castrol Limited, Pipers Way, Swindon, Wiltshire SN3 1RE, UK
www.castrol.com/industrial
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