

LA 162 EXTREME TEMPERATURE GREASE

NLGI 2 LG-CB

DESCRIPTION

LA 162 is an extreme-temperature grease in applications operating at 450-500°C and; uniquely provides greasing for applications that require a grease to flow at -40°C in bearing assemblies of rolling and plain bearings.

It is an advanced grease formulated from select polyol ester and poly alpha olefin base oils for use in areas where direct and radiant temperature are prevalent, steam is high and in areas or regions below freezing.

OPERATIONAL TEMPERATURE RANGE

The operating temperature of LA 162 ranges from -40°C to >450°C direct heat. As heat is produced from thermal or radiant source, the specially selected PAES-SYN™ base stock maintains the lubrication qualities required to protect between metal surfaces yet not 'drip' or carbonize when the bearing metal become hot. Where extreme cold temperatures are encountered, LA 162 maintains the smooth 'flow' characteristics required to lubricate when ordinary grease will solidify and harden.

EXTREME PRESSURE SUPPLEMENT

LA 162 contains solid micronized supplement particles which penetrate the asperities of the metal surface to form a bearing between metal surfaces that will not break down, even under extreme temperatures. This special micronized supplement has no side effect to metal as it is chemically inert.

HIGH LOAD

Due to the micronized particles in LA 162, protection of metal surfaces against wear from unusual high load and shock loading are assured through the wettability and anti-friction properties. The special micronized supplement allows metal surfaces to slide over one another with minimum resistance.

SHEAR STABILITY

LA 162 is much more than just a temperature-resistant lubricant. It provides exceptional lubricity that retards wear and prolongs equipment life. The high shear stability ensures extended life of sealed bearings as LA 162 has an excellent resistance to mechanical shear due to the high film strength of the selected base oils.

RUST AND CORROSION PROTECTION

In areas of high temperature or extreme cold, metal surfaces are more susceptible to rust and corrosion attack due to the moisture build-up from heated surfaces technically attempting to cool themselves. The rust and corrosion inhibitors in LA 162 protect the metal surface under the most adverse conditions.

ACID AND ALKALI RESISTANT

A feature of LA 162 is the ability to withstand against acid and alkali attack. In applications where those chemicals are utilized for cleansing of various products, LA 162 is resistant to early degradation of the molecule structure to maintain its lubricating properties.

FEATURES & OPERATIONAL BENEFITS

FEATURES	ADVANTAGES AND OPERATIONAL BENEFITS
Hi-temperature thermal stability and oxidation resistance	Maintains consistency in storage and high heat operation as a lubricating grease over extended periods
High load carrying efficiency	Protects metal surfaces under heavy loads due to synergistic grease adhering to metal surfaces under mechanical action of friction and anti-friction bearings.
Corrosion Resistant	Protects metal surfaces from acid and base working environments
Wide temperature performance	PAES-SYN™ base oil allows for cold climate flow with high temperature performance in direct and radiant systems.
Energy saving	Synergistic film provides increased co-efficient of friction to reduce drag in contact areas.
Chemically resistant	Protects metal surfaces and grease molecular structure from acid and alkaline environments
Resistant to water wash-off	Preferred application in high water environment to stay put where water ingress cannot be avoided

USE AND APPLICATION

All friction, anti-friction and plain bearings, prepacked and sealed for life bearings, rollers, cables and winches. Areas where high and low temperature and chemical cleaning is encountered.

LA 162		
	ASTM Method	
Product Code		60162
Appearance		Off white
cSt, @ 40°C	D-445	97
Penetration @25°C, 60 Strokes	D-217	305
Dropping point, °C	D-2265	310+/-
Evaporation loss, 175°C, %	D-972	3.9
Oxidation Stability, Pressure Drop, 500hr, kPa	D-942	PASS
Water Washout, 80°C, % loss	D-1264	<3.5
Rust Protection, 48hr, 50°C	D-1743	PASS
Copper Corrosion,	D-130	1b
Load Carrying, Four Ball Weld kg/f	D-2596	425
Four Ball Wear Test, Scar Diameter, mm	D-2266	0.55
Timken, OK Load, kg	D-2509	36

Health and Safety: This product is not expected to cause health concerns when used for the intended application and according to the recommendations in the Material Safety Data Sheet (MSDS).