



TECHNICAL DATA BULLETIN

**1250-1251
ALMASOL®
High Temperature Lubricant**

DESCRIPTION:

High temperature grease formulated with specially selected oil and inorganic thickeners. No dropping point.

Contains ALMASOL®, an inorganic lubricating material with a lamellar structure which is high in compressive strength and has slip-planes which slide easily over one another. ALMASOL is chemically inert and has an affinity for metal.

PHYSICAL CHARACTERISTICS:

	<u>1251</u>	<u>1250</u>
NLGI	1	2-1/2
Base Oil:		
Viscosity		
SUS @ 100°F	2650	2650
SUS @ 210°F	150	150
cSt @ 40°C	495	495
cSt @ 100°C	30.9	30.9
Texture	Smooth, Buttery	Smooth, Buttery
Penetration		
Worked @ 77°F (25°C)	310-340	235-265
Dropping Point °F (°C)	None	None
Operating Temperature °F (°C)*	0 (-18) to 450 (232)	0 (-18) to 450 (232)
Base Thickener	Inorganic	Inorganic
Color	Red	Red

*Operating temperature range based on normal lubrication intervals. The high temperature can be exceeded if the lubrication interval is significantly reduced.

TYPICAL TEST RESULTS:

Emcor Rust Test	----	Pass
Corrosion Prevention, ASTM D-1743		
Fresh Water	Pass	Pass
Synthetic Sea Water	Pass	Pass
Four Ball EP, ASTM D-2596		
Load Wear Index (LWI)	42.48	33.1
Weld Point, kg	200	160
Four Ball Wear, ASTM D-2266		
Scar Diameter, mm	0.75	0.77

LUBRICATION ENGINEERS, Inc.

SPECIFICATIONS EXCEEDED:

USDA H2

APPLICATION:

High temperature lubrication such as ovens, kilns, etc.

RECOMMENDATION:

Although this product is formulated with inorganic thickeners, it contains petroleum oil which, under very high temperatures, can ultimately form carbon and residues as do other greases with petroleum oils.

May show high starting torques due to heavy oil.

BENEFICIAL QUALITIES:

Lasts longer than ordinary lubricants under high temperatures.

Can lubricate certain applications, which might otherwise require synthetics.

Improves high temperature bearing life.

The ALMASOL[®] additive imparts special properties to grease. Field experience in severe service shows lower running temperatures with ALMASOL than with ordinary greases.

ALMASOL's affinity for metal tends to seal metal surfaces and offers protection against rusting and corrosion.

The "seal coat" is one layer thick and does not appreciably change tolerances. It allows metal surfaces to slide over one another with less resistance.

Excellent mechanical stability.

Great staying power under high temperatures.

Protects bearings from rust and corrosion. No. 1 rating on ASTM Bearing Corrosion Test.

Pumps easily at low temperature.

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