Kiln Car Grease

Kiln Car Grease, commonly known as Bel-Ray 5016 Grease 1, is a synthetic, high temperature kiln car lubricating grease containing high performance graphite capable of lubrication up to 538°C (1000°F). The thickened synthetic fluid carries a high purity, high performance graphite to the bearing surface. When applied at temperatures above 149ºC to 163ºC (300ºF to 325ºF), the fluid evaporates and leaves a high-grade graphite to lubricate the bearing surface. Since the quantity of graphite in Kiln Car Grease is relatively high, lubrication with a minimum of product is recommended to prevent the excessive accumulation of solids.

Application at temperatures below 149ºC (300ºF) is not recommended because the carrier fluid will thicken rather than evaporate, thereby causing drag on the bearing and eventual carbonization leading to bearing failure. In addition, contact with any petroleum derived product is to be avoided because the petroleum or mineral oil-based material will carbonize and glue the graphite particles into a tenacious mass with poor lubricating properties.

APPLICATIONS

- Oven conveyor bearings
- Kiln car wheel bearings

PRODUCT FEATURES

- Inorganic thickener
- Non-residue carrier fluid
- High performance graphite

BENEFITS

- No “gum” at high temperature
- Minimum solids accumulation
- Lubrication up to 538ºC (1000ºF)

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Typical Physical Properties		
Property	**Test Method**	**1**
Worked Penetration	ASTM D217	330
NLGI Grade		1
Thickener Type		Inorganic
Viscosity @ 40°C, cSt	ASTM D445	32
Viscosity @ 100°C, cSt	ASTM D445	5.4
Dropping Point, °C (°F)	ASTM 2265	>260 (>500)
Lubricating Solids Type		Graphite
Color		Black

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