



PRODUCT DATA SHEET



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).

Applications

- ◆ Oven conveyor bearings
- ◆ Kiln car wheel bearings

Features and Benefits

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|-----------------------------|-----------------------------------|
| ◆ Inorganic thickener | No gum at high temperature. |
| ◆ Non-residue carrier fluid | Minimum solids accumulation. |
| ◆ High performance graphite | Lubrication up to 538°C (1000°F). |

General Description

Kiln Car Grease is a high temperature kiln car lubricating grease. The thickened synthetic fluid carries a high purity, high performance graphite to the bearing surface. When applied at temperatures above 149°C to 163°C (300°F to 325°F), the fluid evaporates and leaves a high grade graphite to lubricate the bearing surface. Application at temperatures below 149°C (300°F) 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.

Kiln Car Grease is a manageable, convenient-to-use, and ready-to-use form of graphite solids lubrication. The lubricating properties of graphite are well known because it is unaffected by temperature up to 538°C (1000°F).

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. 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.

Product No. 300994

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With continual research and development, Calumet reserves the right to change the information contained herein. The Company is not responsible for misuse or misapplication of its products.

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TYPICAL PROPERTIES

<u>Product No.</u>	<u>300994</u>
<u>Old Product No.</u>	<u>45810</u>
NLGI Grade	1
Penetration, worked (60 strokes), ASTM D217 mm/10	330
Thickener Type	Inorganic
Viscosity (Base Fluid), ASTM D445 @ 40°C, cSt	32.0
@ 100°C, cSt	5.4
Viscosity (Base Fluid), ASTM D2161 @ 100°F, SUS	165
@ 210°F, SUS	44.4
Dropping Point, ASTM D2265 °C	>260
(°F)	(>500)
Lubricating Solids Type	Graphite
Color	Black