Product Information

Pyroshield® Syn Kiln Grease (5190)

Lubricant Provides Superior Protection for Five Wear Zones

For rotary kilns, horizontal calciners and dryers, a single lubricant – Pyroshield® Syn Kiln Grease – can be used to protect four different wear zones:

1. Tire bore (inside diameter)
2. Wear pads
3. Stop blocks
4. Leaf seals

It is also suitable for other equipment with wear surfaces that operate at high temperatures.

It features a high auto-ignition point and contains a synthetic thickener with organic and solid metallic film-forming components as well as Almasol®, LE's exclusive wear-reducing additive. The product's high content of lubricating solids fills the surface imperfections, resulting in a smoother surface, lower friction and less wear. The improved lubrication between filler bars and riding rings reduces weld fractures at the filler bar and kiln shell interface, contributing to extended shell and refractory service.

Pyroshield Syn Kiln Grease can be applied with a variety of applicators, including portable or fixed, manual or automatic, and air- or electric-powered. It is specifically designed for application between the tire bore and filler bars, the sides of the tire, and on the stop blocks.

Beneficial Qualities

Dependable Wear Protection

- 100% lubricant consumption; every ounce of grease is used for maximum lubrication.
- Protects the kiln and stop blocks while eliminating breakage of filler bar welds.
- Extends kiln life by 50 percent.
- Reduces wear that results from scoring of the inside bore of the riding ring.
- Prevents unscheduled downtime.
- Has extremely high auto-ignition point.

Safe & Easy

- Quick and easy, no mixing or preparation time required.
- Easy to apply with manual- or battery-powered grease gun, or through an automated lubrication system.
- Lubricates difficult areas that are unreachable by hand with ease.
- Completely evaporates, leaving no sticky residue, no environmental waste, and no harmful chemical traces.

Proprietary Additive

LE's proprietary additives are used exclusively in LE lubricants. Pyroshield Syn Kiln Grease contains Almasol.

Almasol® solid wear-reducing additive is able to withstand extremely heavy loads, chemical attack and temperatures up to 1,038°C (1,900°F). It is attracted to metal surfaces, forming a microscopic layer but not building on itself or affecting clearances. Almasol minimizes metal-to-metal contact and the resulting friction, heat and wear.

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Pyroshield® Syn Kiln Grease

	5190
Thickener Type	Fumed Silica
Texture	Smooth
Color	Black
NLGI Grade	0.5
Worked 60 Penetration ASTM D217	335-360
Dropping Point °C (°F), ASTM D2265	>316 (600)
Base Fluid Characteristics	
Flash Point °C (°F) (COC), ASTM D92	233 (451)
Auto-Ignition Point, °C (°F), ASTM E659	>484 (903)
Falex Pin & Vee Block EP lbf, ASTM D3233	1,350

Demonstrated Performance

Recommended for use on:

- Andritz
- FLSmidth
- KHD Humboldt Wedag
- Metso Outotec

Typical Applications

- Rotary kilns, horizontal calciners and dryers
  - Tire bore (inside diameter)
  - Wear pads
  - Stop blocks
  - Leaf seals

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