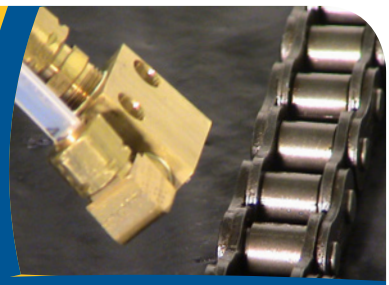
JAX PYRO-KOTE® FG SERIES

H1 FOOD-GRADE, HIGH-TEMP, ASHLESS, SYNTHETIC CONVEYOR LUBES



PRODUCT DESCRIPTION

JAX Pyro-Kote® FG Series synthetic high-temperature lubricating oils comply with 21 CFR 178.3570 as H1 Incidental Food-Contact Lubricants. Based on novel technology, JAX Pyro-Kote® FG Series oils provide exceptional antiwear performance while incorporating the highest quality synthetic base fluids to maximize useful life at elevated temperatures. JAX Pyro-Kote® FG Series oils provide high operational temperature ranges and unsurpassed thermal and oxidative stability performance. The food-grade additive chemistry provides excellent friction-reducing characteristics, while exclusive, synthetic basestocks provide unequaled thermal and chemical stability, virtually eliminating carbon formation in the recommended temperature ranges. Typical problems with other high-temperature lubricants, such as thermal degradation (carbon deposit formation), poor volatility characteristics (excessive smoke and fumes), and high oil consumption (from volatility or evaporation) are eliminated by using JAX Pyro-Kote® FG Series oils. The ability of the JAX Pyro-Kote® FG Series oils to provide cost-effective and problem-solving performance means increased production uptime, savings on maintenance costs, and reduced lubricant consumption.

PRODUCT BENEFITS

- **Extremely Low Volatility**—The evaporation and volatilization characteristics of high-temperature chain lubricants are critical to maintaining a liquid lubricating film at elevated temperatures. Minimizing evaporation and volatilization provides improved metal-wetting performance, substantially longer lubrication intervals, reduced lubricant consumption, less smoke and no objectionable odors. The better the wetting performance, the better the migration of the lubricant to the pivot points of the chain to ensure that proper lubrication occurs in hard-to-reach areas. JAX Pyro-Kote® FG Series oils exhibit extremely low volatility and maximize “dwell time”, thereby increasing the time available for the lubricant to migrate to critical friction points in the chain components.
- **Minimal Varnish, Sludge, Carbon Depositing**—The thermal and oxidative stability of a lubricant in high-temperature operation is critical to the protection and performance of the chain or conveyor it is designed to lubricate. Poor thermal and oxidative performance leading to hard, abrasive carbonaceous deposits causes the majority of chain failure and wear. As deposits form, critical lubricant pathways to pivot points are blocked, causing accelerated wear of the chain due to lubricant starvation. As depositing increases on the chain surfaces, the chain loses flexibility, gains weight from the deposits, and generates increased levels of friction, all leading to increased power consumption and loading on the power transmission components. JAX Pyro-Kote® FG Series oils outperform all competitive products currently available in terms of thermal and oxidative stability, and control of varnish, sludge, and carbon deposits.

APPLICATIONS

JAX Pyro-Kote® FG Series oils are the primary recommendation for applications such as baking, cooking, or wherever a lubricant with exceptional high-temperature performance and NSF H1 certification is required. Recommended operational temperature range is up to 600°F (315°C) with proper relubrication intervals. JAX Pyro-Kote® FG Series oils are compatible with most seals, paints, petroleum oils and metals, including bronze-type components. JAX Pyro-Kote® FG Series oils can also be used for a variety of applications, such as gears and bearings or anywhere an antiwear, high-temperature lubricant is required.

JAX Pyro-Kote® FG Series oils may be manually or automatically applied to chains. In chain lubrication, relubrication is dependent on chain design and length, method of lubrication and operating conditions. [Although these oils are stable at high temperatures, the relubrication intervals should be monitored and the system periodically inspected for an adequate amount of oil on the components at temperatures exceeding 356°F (180°C).] Establishing proper relubrication intervals can reduce lubricant costs by optimizing chain lubrication and reducing oil consumption. Pay close attention when adjusting lubrication intervals and quantities applied. Consult manufacturer’s recommendations and adjust accordingly.

COMPATIBILITY

JAX Pyro-Kote® FG Series is compatible with mineral oils and most synthetic oils*. For optimum performance, it is recommended that the system be thoroughly drained and, if warranted, cleaned prior to installation.

* JAX Pyro-Kote FG Series oils, as well as other synthetic or mineral-based oils, are not compatible with polyglycol-based oils. Thorough flushing prior to changeover is required.

JAX

FG H1

CHAIN & CONVEYOR

JAX PYRO-KOTE® FG SERIES

PERFORMANCE FEATURES AND BENEFITS

- H1 Incidental Food-Contact Authorized
- Long Life / Extended Drains
- Exceptional Thermal and Oxidation Stability
- Enhanced Antioxidant Protection
- Superior Film Strength and Antiwear Protection at High Temperatures
- Exceptionally Low Volatility / Evaporation Rate
- Thermally and Oxidatively Stable up to 600°F (315°C)
- Superior Varnish, Sludge, and Carbon Deposit Control

APPLICATIONS

- Bakery Oven Chains - Including Bun and Bread
- Lithographic Curing Chain - Food and Beverage Cans
- Sealed-for-Life Applications Requiring Long-Term High-Temperature Oxidation Stability

TYPICAL PROPERTIES	PYRO-KOTE FG ISO 68 (PKFGK)	PYRO-KOTE FG ISO 220 (PKFGN)	PYRO-KOTE FG CST 350 (PKFGP)	METHOD
Viscosity @ 40°C, cSt	72.3	213.3	350	ASTM D 445
Viscosity @ 100°C, cSt	10.4	18.6	24	ASTM D 445
Viscosity Index	130	97	85	ASTM D 2270
ISO Viscosity Grade	68	220	--	ASTM D 2422
SAE Viscosity Grade	20	90	140	SAE J 300
Pounds per Gallon	8.26	8.10	8.13	ASTM D 1298
Specific Gravity	0.99	0.97	0.98	ASTM D 1298
Pour Point °F (°C)	-58 (-50)	-13 (-25)	-4 (-20)	ASTM D 97
Flash Point °F (°C)	599 (315)	599 (315)	581 (305)	ASTM D 92
Fire Point °F (°C)	653 (345)	671 (355)	635 (335)	ASTM D 92
Color	Clear to amber	Clear to amber	Clear to amber	
Copper Strip Corrosion	1b	1b	1b	ASTM D 130
Rust Test Method				ASTM D 665
A - Distilled Water Method	Pass	Pass	Pass	
B - Synthetic Sea Water	Pass	Pass	Pass	
Evaporation Loss, %, 22 hrs @ 204°F	2.3	2.0	1.9	
Four-Ball Wear, mm	0.49	0.46	1.00	ASTM D 4172
NSF Registration No./Cat. Code	142491 / H1	142493 / H1	147617 / H1	

JAX products undergo continual improvement in formulation and manufacture. The values indicated in this PDS are typical production values at the time of this writing. JAX reserves the right to alter and update product data and typical values at any time without notice. It is the responsibility of the installer and/or purchaser to determine if these specifications are adequate and proper for the intended application. MSDS information may be found at www.jax.com or by contacting JAX INC.

CONTAINER SIZE	PYRO-KOTE FG ISO 68	PYRO-KOTE FG ISO 220	PYRO-KOTE FG CST 350
275 Gallon Tote - 275	PKFGK-275	PKFGN-275	PKFGP-275
55 Gallon Drum - 055	PKFGK-055	PKFGN-055	PKFGP-055
16 Gallon Keg - 016	PKFGK-016	PKFGN-016	PKFGP-016
5 Gallon Pail - 005	PKFGK-005	PKFGN-005	PKFGP-005
4 - 1 Gallon Case - 004	PKFGK-004	PKFGN-004	PKFGP-004

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CHAIN & CONVEYOR