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Global

TECHNICAL DATA

OPTI-LUBE 320 PLUS

PREMIUM HIGH TEMPERATURE SYNTHETIC OVEN CHAIN LUBRICANT

DESCRIPTION: ISO 320, Optimal High Performance Ester Based Lubricant, Very High Flash Point, Excellent Wear Protection, Recommended service temperature range -20°C to 326°C (620°F)

Petrochem's OPTI-LUBE 320 PLUS is a premium 100% molecular synthetic ester fluid formulated and fortified with special additives to improve performance on conveyor roller ball bearing chains, pin/roller chains, tortilla chains, slides and gears that operate in extreme high temperature oven environments. It remains fluid at elevated temperatures, produces the least amount of deposits and provides effective long term lubrication.

OPTI-LUBE 320 PLUS is a blend of special fluids selected for their oxidative stability, low volatility, and wide temperature serviceability.

CHARACTERISTICS:

- ◆ Long Thin film Lifetime – Remains fluid in elevated temperatures
- ◆ Exceptionally low evaporation rates
- ◆ Superior anti-wear, load and corrosion protection
- ◆ Excellent oxidative and thermal stability
- ◆ Minimal, Very low Deposits
- ◆ Good water and rust resistance
- ◆ Very high flash point of 620°F (326°C)
- ◆ Chains can be lubricated continuously during production hours. No need to turn ovens off for lubrication which is typically found with graphite lubricant products. Eliminates oven flash fires.
- ◆ NSF H-2 registered approved to be used in food processing plants
- ◆ Lubrication consumption significantly decreased

APPLICATIONS:

Bakery Oven Chains
 Roller Ball Bearing Chains on Oven Conveyors
 Pin/Roller Chains on Tunnel & Tray Ovens
 Tenter Frame Oven Chains
 Paint Oven Chains
 Wood Laminating Oven Chains
 Flour and Corn Tortilla/Pita Chains

Fiberglass Production
 Cement Plants
 Kiln Car Wheel Bearings & Support Rollers
 Beverage Can Lines
 Lithographic Chains
 Drying Ovens



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SPECIALTY LUBRICANTS

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Member of the American Baking Society

PROPERTIES

Property	Test Method	Typical Specification
ISO GRADE	ASTM D 445	320
Pounds Per Gallon @25°C	ASTM D-1298	8.32
Viscosity, cSt @ 40°C (104°F)	ASTM D 445	320
Viscosity, cSt @ 100°C (212°F)	ASTM D 445	29
Viscosity Index	ASTM D 2270	143
Flash Point, °C (°F)	ASTM D 92	326°C (620°F)
Fire Point, °C (°F)	ASTM D 92	345°C (670°F)
Pour Point, °C (°F)	ASTM D 97	-20°C (-4°F)
Ramsbottom Carbon Residue %	ASTM D2416	0.41
Density @ 25°C		0.98
4-Ball Wear Test, 40 Kg, 1200 RPM, @ <u>167°F</u> , 1 hr. Average wear scar diameter, mm	ASTM D 4172	0.38
4-Ball Wear Test, 40 Kg, 600 RPM, @ <u>400°F</u> , 1 hr. Average wear scar diameter, mm	ASTM D 4172	0.47
4-Ball Wear Test, 40 Kg, 1200 RPM, @ <u>400°F</u> , 1 hr. Average wear scar diameter, mm	ASTM D 4172	0.55
<i>Evaporation Loss, 8.0 HRS. @ 204°C (400°F), %</i>	<i>ASTM D-2595</i>	2.01
Evaporation Loss, 24 HRS.	--	4.07
Evaporation Loss, 48 HRS.	--	5.78
Evaporation Loss, 72 HRS.	--	6.78
Evaporation Loss, 96 HRS.	--	8.74
Evaporation Loss, 120 HRS.	--	9.96
Evaporation Loss, 144 HRS.	--	10.62
Evaporation Loss, 168 HRS.	--	11.63
Appearance	QL 4099	Yellow Amber Color
Specific Gravity	D1298	0.95
NSF Registration	--	H2

STORAGE & HANDLING PRACTICES:

Warehouse in unopened containers at ambient conditions. Under these conditions, storage life is practically indefinite. For information on the safe handling and use of this product, refer to the Material Safety Data Sheet. For more information and availability, call (630) 513-6350.

