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TECHNICAL DATA



PETRO-SYN FG-220

SYNTHETIC FOOD GRADE HIGH TEMPERATURE OVEN CHAIN LUBRICANT

DESCRIPTION: ISO 220, 100% Fully Synthetic Formulated Ester Based Lubricant, High Flash Point, Excellent Wear Protection, Recommended temperature ranges -20°C to 330°C (625°F), NSF H1 registered for incidental contact with food in and around food processing areas.

FOODSAFE PETRO-SYN FG-220 is a food grade, high temperature ester-based synthetic chain oil fortified with excellent anti-wear additives, oxidation inhibitors and is very stable at extreme high temperatures. This fully synthetic ester based lubricant cleanly evaporates and minimizes carbon build-up on chains contributed by conventional food grade PAO's, mineral and vegetable base lubricants when exposed to higher temperature oven environments.

CHARACTERISTICS:

- ◆ NSF H-1 registered and meets all the requirements of FDA regulations 21 CFR 178.3750
- ◆ Contains only H-1 food grade components
- ◆ Superior load and wear properties
- ◆ Excellent oxidative and thermal stability
- ◆ Reduced sludge and deposit formation
- ◆ Good water and rust resistance
- ◆ Very high flash point of 625°F (330°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.

PROPERTIES:

Property	Test Method	Typical Specification
ISO GRADE	ASTM D 445	220
Pounds Per Gallon @25°C	ASTM D-1298	7.98
Viscosity, cSt @ 40°C (104°F)	ASTM D 445	220
Viscosity, cSt @ 100°C (212°F)	ASTM D 445	27.2
Viscosity Index	ASTM D 2270	143
Flash Point, °C (°F)	ASTM D 92	330°C (625°F)
Fire Point, °C (°F)	ASTM D 92	355°C (670°F)
Pour Point, °C (°F)	ASTM D 97	-20°C (-4°F)



PETROCHEM, INC.
SPECIALTY LUBRICANTS

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Property	Test Method	Typical Specification
Ramsbottom Carbon Residue %	ASTM D2416	0.30
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
Evaporation Loss, 6.0 HRS. @ 204°C (400°F), %	ASTM D-2595	1.2%
Evaporation Loss, 24 HRS.	--	3.11%
Evaporation Loss, 48 HRS.	--	4.99%
Evaporation Loss, 72 HRS.	--	7.39%
Evaporation Loss, 96 HRS.	--	9.52%
Evaporation Loss, 120 HRS.	--	12.63%
Appearance	QL 4099	Amber Liquid
Specific Gravity	D1298	0.95
NSF Registration	--	H1

APPLICATIONS:

Flour and Corn Tortilla Oven Chains
 Pita Oven Chains
 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
 Fiberglass Production
 Cement Plants
 Kiln Car Wheel Bearings & Support Rollers
 Beverage Can Lines
 Lithographic Chains
 Drying Ovens

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.



Nonfood Compounds Program Listed Category Code: H1 Registration Number: XXXXXX
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