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TECHNICAL DATA

WHITE-GRAPHITE FG-220

FOODSAFE SYNTHETIC ESTER BASED WHITE-GRAPHITE OVEN CHAIN LUBRICANT

DESCRIPTION: (ISO 220) Food Grade, 100% Fully Synthetic Formulated Ester Based Carrier fortified with suspended ultra fine white-graphite powder that provides excellent lubrication up to 1200°F. NSF H1 registered for incidental contact with food in and around food processing areas.

FOODSAFE WHITE-GRAPHITE FG-220 is a food grade ester-based synthetic chain oil fortified with suspended solid white-graphite that is designed for use on chains where excellent thermal stability and reduced deposit formation is desired. This fully synthetic ester based carrier (non-vegetable based) minimizes carbon build-up on chains contributed by mineral/vegetable carriers and will cleanly evaporate after 605°F while the ultra fine White-Graphite powder film provides extended lubrication intervals for temperatures up to 1200°F (650°C) Plus.

CHARACTERISTICS:

- ◆ NSF H1 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
- ◆ Carrier has a very high flash point of 605°F (318°C)
- ◆ Extended Lubrication up to 1200°F Plus (650°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 flash fires in ovens.

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	318°C (605°F)
Pour Point, °C (°F)	ASTM D 97	-20°C (-4°F)
Ramsbottom Carbon Residue %	ASTM D2416	0.24



PETROCHEM, INC.
SPECIALTY LUBRICANTS

6N999 Whispering Trail Road, St. Charles, IL 60175
Phone: 630.513.6350 Fax: 630.513.8324
www.petrochem1.com info@petrochem1.com

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**WHITE-GRAPHITE FG-220 HIGH TEMPERATURE SYTHETIC OVEN CHAIN LUBRICANT
PAGE 2**

Property	Test Method	Typical Specification
Fire Point, °C (°F)	ASTM D 92	355°C (670°F)
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	0.49
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, 8.0 HRS. @ 204°C (450°F)	ASTM D-2595	2.0%
Evaporation Loss, 24 HRS.	--	4.8%
Evaporation Loss, 48 HRS.	--	8.15%
Evaporation Loss, 72 HRS.	--	11.13%
Evaporation Loss, 96 HRS.	--	13.11%
Evaporation Loss, 120 HRS.	--	16.17%
Evaporation Loss, 144 HRS.	--	17.89%
Evaporation Loss, 168 HRS.	--	19.29%
Appearance	QL 4099	Milky White 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