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TECHNICAL DATA

WHITE-GRAPHITE™ PAG FG-220

FOOD SAFE SYNTHETIC PAG BASED WHITE-GRAPHITE OVEN CHAIN LUBRICANT

***DESCRIPTION*: FOOD GRADE (ISO 220) 100% Fully Synthetic Formulated Polyalkylene Glycol base carrier fortified with suspended solid white-graphite that provides excellent lubrication up to 1200°F. NSF H1 registered for incidental contact with food in and around food processing areas.**

WHITE-GRAPHITE™ PAG FG-220 is a food grade polyalkylene glycol based synthetic chain oil fortified with suspended solid white-graphite that is designed for use on chains where excellent thermal stability and reduced deposits formation is desired. The fully synthetic PAG based carrier (non-vegetable based) minimizes carbon build-up on chains contributed by mineral petroleum/vegetable carriers and will cleanly evaporate after 520°F while the solid White-Graphite™ film provides extended lubrication intervals for temperatures up to 1200°F (650°C).

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
- Carrier has a flash point of 525°F (271°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 oven flash fires.

PROPERTIES:

Property	Test Method	Typical Specification
ISO GRADE	ASTM D 445	220
Pounds Per Gallon @25°C	ASTM D-1298	8.26 lbs./gallon
Viscosity, cSt @ 40°C (104ºF)	ASTM D 445	220
Viscosity, cSt @ 100°C (212ºF)	ASTM D 445	27.2
Viscosity Index	ASTM D 2270	C143
Flash Point, ºC (ºF)	ASTM D 92	271°C (520°F)
Pour Point, ºC (°F)	ASTM D 97	-20ºC (-4°F)

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The information contained herein is believed to be accurate but all suggestions are made without Guarantee because the conditions of actual use are beyond our control. Petrochem disclaims all Liability incurred in connection with the use of this data or suggestions.

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Property	Test Method	Typical Specification
4-Ball Wear Test, 40 Kg, 1200 RPM, @ 167°F, 1 hr. Average wear scar diameter, mm	ASTM D 4172	0.30
4-Ball Wear Test, 40 Kg, **600 RPM**, @ 400°F, 1 hr. Average wear scar diameter, mm	ASTM D 4172	0.38
4-Ball Wear Test, 40 Kg, **1200 RPM**, @ 400°F, 1 hr. Average wear scar diameter, mm	ASTM D 4172	0.48
Evaporation Loss, 8.0 HRS. @ 204°C (450°F)	ASTM D-2595	46%
Evaporation Loss, 24 HRS.	--	68%
Evaporation Loss, 48 HRS.	--	78%
Evaporation Loss, 72 HRS.	--	82%
Evaporation Loss, 96 HRS.	--	84%
Evaporation Loss, 120 HRS.	--	86%
Evaporation Loss, 144 HRS.	--	87%
Evaporation Loss, 168 HRS.	--	87.48%
Appearance	QL 4099	Milky White Liquid
Specific Gravity	D1298	0.95
NSF Registration	--	H1

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
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.