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TECHNICAL DATA

PETRO-GARD® FG-68

FOODSAFE HIGH TEMPERATURE SYNTHETIC OVEN CHAIN LUBRICANT

***DESCRIPTION: ISO 100 Food Grade Proprietary Synthetic Ester Blend,
High Flash Point, Excellent Wear Protection***

PETRO-GARD® FG-68 is acceptable as a lubricant with incidental food contact (H1) for use in and around food processing areas that meets all regulatory requirements under FDA 21 CFR 178.3570. Recommended Temperature Range: -40°C to 315°C (-40°F to 600°F).

PETRO-GARD® FG-68 is a high performance lubricant formulated from premium state of the art synthetic esters and proprietary additives to withstand these extreme high temperature oven environments:

BAKERY OVEN CHAINS IN:

- TORTILLA OVENS
- PITA OVENS
- TUNNEL/TRAY OVENS (PIN/ROLLER CHAINS)
- RACK OVENS
- SPIRAL OVENS
- CONTINUOUS CONVEYOR OVENS (ROLLER BALL BEARING CHAINS)
- BAGEL/MUFFIN OVENS
- ALL FOOD PROCESSING EQUIPMENT

Features & Benefits

- **NSF H-1 registered** – Can be used in food processing plants with incidental contact with food. Contains no known carcinogens, non hazardous and is considered environmentally friendly.
- **Exceptional Wear Protection:** Provides protection against wear, friction, rust and corrosion; thus, extending bearing, chain and equipment life.
- **Reduced Carbonization & Oxidation:** PETRO-GARD® FG-100 is a clean, ashless fluid-film that decreases energy consumption by maintaining optimal amperage, eliminating chain stretching and chain dragging.
- **Lower Evaporation & Volatility:** Very stable in high temperatures, provides longer lubrication intervals, saves money on lubricant consumption, has less smoke and no objectionable odors.
- **High Flash Point:** PETRO-GARD® FG-100 has a high flash point and can be applied to either a hot or cold chain while in production, hence reducing maintenance cost and increasing productivity.
- **Oven Fires Eliminated** – Lubricants such as solid graphite with low flashpoint carriers can cause fires in the oven if a flame from burner ignites before carrier evaporates.



PETROCHEM, INC.
SPECIALTY LUBRICANTS

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Member of the American Baking Society

Physical Properties

Property	Test Method	Typical Specification
ISO GRADE	ASTM D 445	68
Viscosity, cSt @ 40°C (104°F)	ASTM D 445	68
Viscosity, cSt @ 100°C (212°F)	ASTM D 445	10
Viscosity Index	ASTM D 2270	130
Fire Point, °C (°F)	ASTM D 92	340 (645°F)
Flash Point, °C (°F)	ASTM D 92	315 (600°F)
Pour Point, °C (°F)	ASTM D 97	-40
4-Ball Wear Test, 40 Kg, 600 RPM, @ 200°C (400°F), 1 hr. Average wear scar diameter, mm	ASTM D 4172	0.42
4-Ball Wear Test, 40 Kg, 1200 RPM, @ 200°C (400°F), 1 hr. Average wear scar diameter, mm	ASTM D 4172	0.46
Evaporation Loss, 6.5 HRS. @ 204°C (400°F), %	ASTM D-2595	1.8
Ramsbottom Carbon Residue, %	ASTM D524	0.08
Density @ 25°C		
Pounds/ Gallon		(Est.) 8.1 @ 25 C
Odor		Mild
Appearance	QL 4099	Light Amber Liquid

Regulatory Status:

PETROCHEM P/N#	PETRO-GARD® FG-68
TSCA (USA)	√
EINECS (EU)	√
DSL (Canada)	√
AICS (Australia)	√
ECL (Korea)	√
METI/ENCS (Japan)	
IECS (China)	√
PICCS (Philippines)	√
NSF Category Code	H1
NSF Registration Number	
Incidental Food Contact	Yes



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.