



# TECHNICAL DATA

Rev.06/19

## PETRO-GARD® FG-46

FOOD GRADE HIGH TEMPERATURE SYNTHETIC OVEN CHAIN LUBRICANT  
LIGHT OIL CHAIN APPLICATION

**DESCRIPTION: ISO 46 Food Grade, Light Viscosity  
Proprietary Synthetic Ester Blend, High Temperature, Excellent Penetration**

PETRO-GARD® FG-46 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 280°C (-40°F to 535°F).

PETRO-GARD® FG-46 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, especially excellent penetration properties for Griddle/English Muffin Oven Chains.

### 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 H1 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-46 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-46 has a higher flash point compared to mineral and PAO's 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.

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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, Inc. disclaims all Liability incurred in connection with the use of this data or suggestions.

**Member of the American Baking Society**

**PHYSICAL PROPERTIES:**

Property	Test Method	Typical Specification
ISO GRADE	ASTM D 445	46
Viscosity, cSt @ 40°C (104°F)	ASTM D 445	46
Viscosity, cSt @ 100°C (212°F)	ASTM D 445	8
Viscosity Index	ASTM D 2270	135
Flash Point, °C (°F)	ASTM D 92	280 (535°F)
Pour Point, °C (°F)	ASTM D 97	-45
Ramsbottom Carbon Residue, %	ASTM D524	0.08
Specific Gravity @ 25°C	D-1298	0.95
Biodegradability	-	67%
Odor	-	Mild
Appearance	QL 4099	Light Clear Amber Liquid

**REGULATORY STATUS:**

PETROCHEM P/N#	PETRO-GARD® FG-46
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.