



ULTRA-GARD FG-220

ULTRA PREMIUM FOOD GRADE HIGH TEMPERATURE SYNTHETIC OVEN CHAIN LUBRICANT



DESCRIPTION: ISO 220 Food Grade NSF H1 Registered #161564
Proprietary Synthetic POE Ester Base Fluid and Additive Package

**Extremely Low Carbonization, Smoke and Evaporation Loss
Very High Flash Point, Excellent Thermal Oxidative Stability and Wear Protection**

ULTRA-GARD™ FG-220 is the newest premier high-performance food grade synthetic ester oven chain lubricant technology. **ULTRA-GARD™ FG-220** is formulated to lead in the advancement of carbon residue reduction, longer evaporation rates and long-term chain protection.

ULTRA-GARD™ FG-220 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: -25°C to 318°C (-25 to 605°F).

BAKERY OVEN CHAINS: *Precise Automated Lubrication Systems, OEM Engineered Designed Lubricators, Gravity or Manually Operated Methods Recommended*

CONTINUOUS CONVEYOR OVENS
(ROLLER BALL BEARING CHAINS)
TUNNEL/TRAY OVENS
(PIN/ROLLER CHAINS)

TORTILLA OVENS
PITA OVENS
RACK OVENS
SPIRAL OVENS

BAGEL/MUFFIN OVENS
ALL FOOD PROCESSING
EQUIPMENT

PHYSICAL PROPERTIES:

Property	Test Method	Typical Specification
ISO GRADE/ SAE GRADE	ASTM D445	220 (50)
Viscosity, cSt @ 40°C (104°F)	ASTM D445	220
Viscosity, cSt @ 100°C (212°F)	ASTM D445	19
Viscosity Index	ASTM D2270	100
Fire Point, °C (°F)	ASTM D92	360 (680°F)
Flash Point, °C (°F)	ASTM D92	318 (605°F)
Pour Point, °C (°F)	ASTM D97	-25
4-Ball Wear Test, 40 Kg, 600 RPM, @ 200°C (400°F), 1 hr. Average wear scar diameter, mm	ASTM D4172	0.47
Evaporation Loss, 22 Hours @ 204°C (400°F), %	ASTM D2595	2.0%
TGA minutes to 50% evaporation at 250°C	-	100
Residue, TEOST 24 hours @285°C, grams	ASTM D7097	0.6 Grams
TGA Residue, % (2 hours at 300°C)	-	<1
Specific Gravity @ 15.6°C	-	0.980 @ 25 C
Odor	-	Mild
Appearance	QL4099	Light Amber Liquid

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