



TECHNICAL DATA

Rev.07/31/24 #3

FOODSAFE GEARSYN FGG SERIES SYNTHETIC FOOD GRADE GEAR LUBRICANTS

GEARSYN FGG SERIES gear oils are specially formulated for gear systems operating in the food and packaging industries. These fully synthetic hydrocarbon (PAO) lubricants are NSF H-1 registered, approved by the U.S.D.A for H-1 applications (lubricants with possible food contact) and comply with the requirements of F.D.A. 21 CFR 1778.3570.

PRODUCT APPLICATION:

- Recommended for gearboxes and enclosed gears operating under low or high temperatures and humidity.
- Used in food processing equipment as a protective anti-rust film, a release agent on gaskets or seals of tank closures, and other machine parts and equipment in locations with potential exposure of the lubricant to food.

Beverage Canning	Dairy Operations	Pharmaceutical Plants
Bottling Operations	Fruit and Vegetable Processing	Food Processing Equipment
Meat and Poultry Processing	Bakeries	Proofer Ovens

PRODUCT FEATURES:

- Colorless, odorless and manufactured from high quality hydrocarbon base stock and contain selective additives to provide long term oxidation stability, rust and corrosion protection and good demulsibility.
- Tough extreme pressure (EP) properties to protect metal from seizure and wear.
- Extremely good low and high temperature properties
- Available in 1 gallon, 5-gallon pail or 55-gallon drum

PHYSICAL PROPERTIES:

Property	ASTM Test Method	ISO 150 (SAE 85W) FGG-150	ISO 220 (SAE 90) FGG-220	ISO 320 (SAE 90) FGG-320	ISO 460 (SAE 140) FGG-460	ISO 680 (SAE 140) FGG-680
Viscosity Index	ASTM D 2270	145	158	144	142	130
Viscosity @ 40° C, cSt	ASTM D 445	150	212	320	428	658
Viscosity @ 100° C, cSt	ASTM D 4451	19.1	26.4	32	40.0	49
Flash Point, °F (°C)	ASTM D 92	520 (270)	525 (274)	525 (274)	520 (270)	500 (260)
Fire Point, °F (°C)	ASTM D 92	580 (304)	585 (307)	585 (307)	580 (304)	560 (293)
FZG Spur Gear Test	ASTM D 51354	12+ Pass	12+ Pass	12+ Pass	12+ Pass	12+ Pass
Pour Point, °F	ASTM D 97	-40	-40	-30	-30	-20
Specific Gravity	ASTM D 1298	0.845	0.848	0.851	0.856	0.862
Color	ASTM D 1500	Bright & Clear	Bright & Clear	Bright & Clear	Bright & Clear	Bright & Clear

HANDLING PRACTICES:

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.

Petrochem, Inc.

333 North Randall Road, St. Charles, IL 60174

Phone (630) 513-6350 Fax (630) 513-8324

Web www.petrochem1.com

Email info@petrochem1.com



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