



## **ULTRALINE**

### **Food Grade Semi-Synthetic Gear Oils FGO Series**

**ULTRALINE FGO Series** is a range of semi-synthetic food grade gear oils, specially formulated for gear systems operating in the food and packaging industries. Suitable for the lubrication of gearboxes, enclosed gears and reduction units operating under low or high temperatures and humidity. **ULTRALINE FGO** semi-synthetic gear oils contain special additives that extend relubrication intervals. It has tough extreme pressure (EP) properties to protect metal from seizure and wear, and meet all requirements of gear drives running in food processing plants.

**ULTRALINE FGO Series** can also be used as chain oils for drive chains, conveyor chains, cables and rollers. It provides superior lubricity to protect moving parts, provide long term lubrication even under severe heavy duty and extreme ambient conditions. It is specifically designed to provide excellence lubrication up to 140°C, and up to 160°C for short periods of time depending on the grade used.

**ULTRALINE FGO Series** meet the requirements for the U.S.D.A. H-1 quality lubricant and the requirements of the United States Code of Federal Regulations 21CFR 178.3570  
This product contains no genetically modified ingredients and does not contain any nut oil or derivatives.

**ULTRALINE FGO Series** can be used in the lubrication of all types of enclosed gear, chain guide, chain and conveyor applications where there is a chance of incidental contact with food, foodstuffs, drinking water, potable water or ground water may occur. Typically, these applications can be found in the following industries:

**Bakeries**  
**Beverage Canning**  
**Dairy Operations**  
**Fruit and Vegetable Processing**  
**Food Processing Equipment**

**Meat and Poultry Processing**  
**Pharmaceutical Plants**  
**Proofer Ovens**  
**Soft Drink and Bottling Plants**

#### **Outstanding Features** for gear applications

- Extremely good oxidation stability which extends lubricant life
- Unaffected by water – demulsibility ensures total separation of water from oil
- Adhesive additives coat gears and provide anti-wear protection at start-up
- Semi-Synthetic oil with high Viscosity Index ensures reduced viscosity change with temperature increases

#### **Outstanding Features** for chain applications

- Penetrates to the links and pins reducing wear and extending chain life
- Adhesive additives ensure non-drip, no fling thus providing lasting lubrication
- Excellent adhesive characteristics ensures a high degree of water resistance and protects parts from corrosion even in the presence of alkali materials commonly associated with the food industry
- Reduce energy consumption by reducing frictional drag on electric motors



## Directions for use

For gearboxes and reduction units – Ensure that the gearbox manufacturers’ lubricant rating corresponds to using the ISO grade recommended. For optimum performance, drain gearbox of previous lubricant.

### Easy To Apply & Use

- Contains no solids; requires no pre-mixing
- Can be applied to hot oven chains without interrupting operation
- Leaves no residue; will not create cleanup issues

## Characteristics (Typical Figures)

Product Name	FGO 100	FGO 150	FGO 220	FGO 320	FGO 460
ISO Grade	100	150	220	320	460
Appearance	← Clear adhesive oil →				
Base oil	← Blend of Semi synthetic oils →				
Kinematic Viscosity (ASTM D445) @ 40° C cSt	100	150	220	320	460
Demulsibility (ASTM D1401) 30 min	←		40-37-3	→	
Foaming (ASTM D892) - Sequence 1	Nil	Nil	Nil	Nil	Nil
-Sequence 2	Nil	Nil	Nil	Nil	Nil
-Sequence 3	Nil	Nil	Nil	Nil	Nil
Copper corrosion (ASTM D130)	1b	1b	1b	1b	1b
FZG Gear Test Stage	12	12	12	12	12
Pour Point, ° C	-15	-15	-15	-15	-15
Flash Point Open Cup, ° C	230	230	230	230	230

TYPICAL VALUES DO NOT CONSTITUTE AS SPECIFICATIONS.  
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