



# ULTRALINE

## Fully Synthetic Food Grade Chain Oils FLC Series

### *Description*

*ULTRALINE FLC Series is a range of fully synthetic anti-wear, extreme pressure food grade chain oils, that is specially formulated for use in the lubrication of food, feed and pharmaceutical processing and packaging equipment, particularly suitable for the lubrication of drive chains, conveyor chains, cables and rollers, providing superior lubricity to protect moving parts. This oil has a high viscosity index ensuring optimum performance over a wide operating temperature range. It can be used as chain oils up to 200°C and 240°C for short periods of time depending on the grade used. Even at low temperature applications, it will out-perform other oil in subzero conditions. It will maintain a good flow ability in the freezing zone to ensure best lubricating quality.*

*ULTRALINE FLC Series can be also used as gear oils for gearboxes and reduction units. Especially those pieces of equipment that are subjected to high loads and high moisture conditions. ULTRALINE FLC Series contain special additives that extend relubrication intervals. Excellent for lubrication of drive chains, conveyor chains and gearboxes.*

*ULTRALINE FLC 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*

### *Applications*

ULTRALINE FLC Series can be used in the lubrication of all types of chain, conveyor, chain guide and enclosed gear 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**  
**Breweries and Wineries**  
**Cheese and Cheese Product Producers**  
**Cosmetic Manufacturers**  
**Drinking and Potable Water Treatment Plants**  
**Egg Processing Plants**  
**Fish and Seafood Processing Plants**  
**Food and Beverage Container Manufacturers**  
**Meat and Poultry Processing Plants**

**Oil Mills and Seed Cake Processors**  
**Paper and Paperboard Manufactures**  
**Pasta Manufacturers**  
**Pet Food and Animal Feed Producers**  
**Pharmaceutical and Drug Manufacturers**  
**Snack Food Manufacturers**  
**Soft Drink and Bottling Plants**  
**Vegetable and Fruit Processors**  
**Water Well Drillers**

### *Outstanding Features for chain applications*

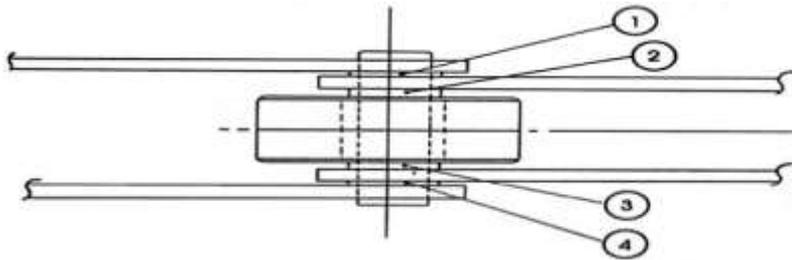
- *Penetrates all moving parts of the chain, enabling them to move freely*
- *Adhesive additives ensure non-drip, no fling thus providing lasting lubrication*
- *Excellent adhesive characteristics ensures a high degree of water resistance and protects parts from corrosion even in the presence of alkali materials commonly associated with the food industry*
- *Extremely wide temperature range ensures maximum application versatility*
- *Reduce energy consumption by reducing frictional drag on electric motors*

## Directions for use for chain applications

1. Uses as received, do not dilute.
2. Can be applied to hot oven chains without interrupting operation
3. Keep container tightly sealed at all times when not in use to prevent contamination.
4. Apply by brush, swab, electric or central drip feed system.
5. Leaves no residue; will not create cleanup issues

### WHERE TO LUBRICATE:

1-2-3-4 = POINTS TO BE LUBRICATED



## Characteristics (Typical Figures)

Product Name	FLC 100	FLC 150	FLC 220	FLC 320	FLC 460
ISO Grade	100	150	220	320	460
Appearance	← Clear adhesive oil →				
Base oil	← Blend of Synthetic oils →				
Kinematic Viscosity (ASTM445) @ 40° C, cSt	101	149	218	322	458
Kinematic Viscosity (ASTM445) @ 100° C, cSt	13.7	17.7	23.8	31.3	40
Viscosity Index (ASTM D2270)	138	136	135	134	133
Demulsibility (ASTM D1401) 30 min.	← 40-37-3 →				
Foaming (ASTM D892) after settling 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	-40	-35	-30	-30	-15
Flash Point Open Cup, ° C	260	280	280	280	240

TYPICAL VALUES DO NOT CONSTITUTE AS SPECIFICATIONS.  
DUE TO CONTINUAL PRODUCT RESEARCH AND DEVELOPMENT,  
THE INFORMATION CONTAINED HEREIN IS SUBJECT TO CHANGE WITHOUT NOTIFICATION.

