







# TOP BLEND FG



## Food Grade Gear Oil

**Specially formulated for use in enclosed gearboxes, associated gears & bearings for food industry machinery**



-  NSF H1 approved for use in food contact areas
-  Contains leak inhibitors and seal conditioners
-  Prevents wear from dry starts
-  Resists oil oxidation and foaming
-  Averts water contamination
-  Available in ISO 220, 320, 460

### PROBLEM

Compliance with food industry legislation

Oil leaking from seals

Excessive gear wear

Oil oxidation and foaming

Corrosion

Multifunctional requirements

### SOLUTION

**Top Blend FG** is food grade NSF H1 approved for use in food processing areas where there is a possibility of incidental contact with food.

**Top Blend FG** has seal conditioners to keep seals and wipers soft and pliable to prevent drying and cracking.

**Top Blend FG's** adhesive and cohesive polymers form a protective layer to prevent metal-to-metal contact; even under extreme loads

**Top Blend FG** contains oxidation inhibitors, extending oil life up to 4 times and anti-foam agents which lower oil surface tension preventing foam build up.

**Top Blend FG** has demulsifiers which separate water to keep gears dry and properly lubricated.

**Top Blend FG** can be used to lubricate bearings and chains where there is special demand for a food grade high viscosity lubricant.

## ADDITIVES

## USER'S BENEFITS

|                      |  |
|----------------------|--|
| Adhesive Agents      | Help lubricant cling to surface and reduce start up wear |
| Anti-Foam agents     | Reduces oil leakage risks thereby extending service life |
| Anti-oxidants        | Longer service life                                      |
| Anti-wear            | Reduces component wear and extends equipment life        |
| Corrosion inhibitors | Longer equipment life                                    |
| EP additives         | Withstands high pressures                                |
| Seal Conditioners    | Reduces leakage/spills. Extends service life.            |

| TECHNICAL SPECIFICATIONS    |      |      |      |       |       |
|-----------------------------|------|------|------|-------|-------|
| DEFINITION                  | UNIT | 220  | 320  | 460   | ASTM  |
| SAE viscosity grade, approx |      | 90   |      | 140   |       |
| ISO viscosity grade         |      | 220  | 320  | 460   |       |
| Kinematic viscosity +40°C   | cSt  | 222  | 320  | 460   | D445  |
| Kinematic viscosity 100°C   | cSt  | 18.5 | 26.0 | 40    | D445  |
| Flash point                 | °C   | 205  | 210  | 240   | D92   |
| Pour point                  |      | -15  | -20  | < -35 | D97   |
| FZG Gear Test               |      | 12   | 12   | 12    |       |
| Copper Corrosion            |      | 1b   | 1b   | 1b    | D130  |
| Rust Test, 24 hrs           |      | none | none | none  | D665A |
| 4 ball wear test, 1hr, 40Kg | mm   | 0.40 | 0.40 | 0.40  | D2266 |

## APPLICATION AREAS

Enclosed gear boxes and associated gears, bearings and chains for machinery and equipment used in the food industry.

**REMARKS:** Not for use in automatic transmissions, farm or industrial tractors with combined transmissions, axle and hydraulic systems; or any other equipment where the manufacturer does not recommend this type of gear lubricant. Do not use with polyglycol synthetic oils.

### KERNITE

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