



# TECHNICAL DATA

Rev.5/12

## FOODSAFE FMO SERIES GEAR & FOOD MACHINERY OILS

**FOODSAFE FMO SERIES** are formulated with pure white oil base stocks and are fortified with additives to provide protection against corrosion, wear and oxidation. These products are designed to operate under typical conditions encountered in food processing, pharmaceutical and personal care facilities.

**APPLICATIONS INCLUDE:** Enclosed gearboxes, heavy duty chains, bearings, blowers, slideways and guide post.

**FOODSAFE FMO SERIES** level of performance allows for consolidation of inventories and they can be used in industrial applications where non-food grade lubricants are currently used, further allowing for consolidation of your lubricant inventories and reducing the chance of misapplication and possible contamination of your food processing systems.

**NSF H1** – Approved by NSF for use in food processing facilities as a lubricant or anti-rust agent on equipment in which there may be incidental contact involving the lubricated part and the edible product.

### TYPICAL PROPERTIES:

| Property/Product Name FOODSAFE          | Method     | Unit                 | FMO 150 | FMO 220 | FMO 320 | FMO 460 |
|---|------------|----------------------|---------|---------|---------|---------|
| ISO Viscosity Grade                     |            |                      | 150     | 220     | 320     | 460     |
| Viscosity @ 40°C                        | ASTM D445  | cSt                  | 150     | 220     | 320     | 460     |
| Viscosity @ 100°C                       | ASTM D445  | cSt                  | 15.55   | 21.34   | 28.49   | 38      |
| Viscosity Index                         | ASTM D2270 | n/a                  | 102     | 104     | 101     | 98      |
| API Gravity                             | ASTM D1298 | n/A                  | 30.4    | 30.1    | 29.8    | 28.6    |
| Flash Point                             | ASTM D92   | °C/°F                | 232/450 | 232/450 | 232/450 | 232/450 |
| Pour Point                              | ASTM D97   | °C/°F                | -9/15   | -12/10  | -12/10  | -12/10  |
| Acid Number                             | ASTM D664  | mg KOH/gm            | <0.4    | <0.4    | <0.4    | <0.4    |
| Corrosiveness to Copper                 | ASTM D130  | n/a                  | 1a      | 1a      | 1a      | 1a      |
| Oxidation Stability                     | ASTM D943  | Hours to 2 NN        | 8,000+  | 8,000+  | 8,000+  | 8,000+  |
| Steel Corrosion                         | ASTM D665  | Pass/Fail            | Pass    | Pass    | Pass    | Pass    |
| 4 Ball Wear<br>40kg/1200RPM<br>1HR/75°C | ASTM D4172 | Scar Diameter,<br>mm | 0.45    | 0.45    | 0.45    | 0.45    |
| NSF Registration #                      |            |                      | Pending | Pending | Pending | Pending |

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**Member of the American Baking Society**

**REGULATORY:**

These products are formulated to meet 21 CFR 178.3570, requirements for lubricants with the possibility of incidental food contact and are registered by NSF as H-1 (formerly USDA H-1).

**PACKAGING:**

5-Gallon Pail, 55-Gallon Drum

**STORAGE:**

The shelf life of these products is 24 months in their original sealed package. These products should be stored in a cool and dry environment.

**EXPERIENCE AND SUPPORT:**

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.