



ISO-9001 Registered Quality System.
ISO-21469 Compliant.

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LUBRIPLATE "SFL" SERIES

Now with LUBRI-ARMOUR, LUBRIPLATE's anti-microbial additive developed to prevent the decomposition of lubricants caused by microorganisms. LUBRIPLATE SFL greases treated with LUBRI-ARMOUR remain fresh and last longer in harsh food processing plant environments.

Synthetic, Food Grade Lubricating Greases

*NSF H-1 Registered

"These products are certified OU Kosher Pareve"

"These products are Halal certified"

The LUBRIPLATE SFL Series was developed to meet the ever-increasing demands placed on food-processing equipment today. The synthetic base fluid and the aluminum complex soap thickener allows for a wide operating temperature range for all four NLGI consistencies.

LUBRIPLATE SFL-1 has an approximate operating temperature range of -60 to 300°F making it ideal for freezer and other cold temperature applications where conventional food-grade greases cannot be used. In addition to its exceptional low temperature pumpability, its high shear stability, excellent water resistance and outstanding load-carrying properties make LUBRIPLATE SFL-1 the only choice for extreme low temperature applications requiring a product that meets USDA 1998 Guidelines and is NSF H-1 Registered. Available in 14½ oz. Cartridges.

LUBRIPLATE SFL-0 and LUBRIPLATE SFL-00 are similar to SFL-1 with the exception that they have softer consistencies, which are NLGI 0 and NLGI 00 respectively. LUBRIPLATE SFL-0 and LUBRIPLATE SFL-00 also have an approximate operating temperature range of -60 to 300°F.

LUBRIPLATE SFL-2 is a synthetic multi-purpose food-grade grease, which can be used throughout most modern food processing plants for most all grease lubrication requirements. This product has an approximate operating temperature range of -25 to 400°F.

Typical Tests

| | <u>SFL-2</u> | <u>SFL-1</u> | <u>SFL-0</u> | <u>SFL-00</u> |
|--------------------------------|------------------|------------------|------------------|------------------|
| Thickener | Aluminum Complex | Aluminum Complex | Aluminum Complex | Aluminum Complex |
| NLGI Grade | 2 | 1 | 0 | 00 |
| Penetration Range - 60 Strokes | 265 - 295 | 310 - 340 | 355 - 385 | 400 - 430 |
| Dropping Point | 500°F/260°C | 450°F/232°C | 425°F/218°C | 400°F/204°C |
| Low Temperature Torque @ -40°F | | | | |
| Starting Torque | ----- | 1,853 gm-cm | 618 gm-cm | 358 gm-cm |
| Running Torque - One Hour | ----- | 260 gm-cm | 137 gm-cm | 163 gm-cm |
| Water Washout @ 175°F | 2.5% | 6.3% | 8.1% | 12.5% |
| Four-Ball Wear Test | | | | |
| 40 kg, 1200 rpm, @ 167°F | | | | |
| Scar Diameter | 0.60 mm | 0.59 mm | 0.55 mm | 0.55 mm |

(Over)

LUBRIPLATE "SFL" Series:**Typical Tests** (Cont'd.)

| | <u>SFL-2</u> | <u>SFL-1</u> | <u>SFL-0</u> | <u>SFL-00</u> |
|----------------------------------|---------------------|---------------------|---------------------|----------------------|
| Lincoln Ventmeter Results | | | | |
| 75°F (24°C) | N/A | 200 psig | 0 psig | 0 psig |
| 30°F (-1°C) | N/A | 325 psig | 0 psig | 0 psig |
| 0°F (-18°C) | N/A | 500 psig | 150 psig | 150 psig |
| -30°F (-34°C) | N/A | 1050 psig | 800 psig | 650 psig |

Base Fluid Properties

| | | | | |
|-----------------------------|-------------|-------------|-------------|-------------|
| Saybolt Viscosity @ 100°F | 1070 SUS | 200 SUS | 200 SUS | 200 SUS |
| Saybolt Viscosity @ 210°F | 105 SUS | 49 SUS | 49 SUS | 49 SUS |
| Kinematic Viscosity @ 40°C | 219 cSt | 39 cSt | 39 cSt | 39 cSt |
| Kinematic Viscosity @ 100°C | 21 cSt | 7 cSt | 7 cSt | 7 cSt |
| Viscosity Index | 114 | 127 | 127 | 127 |
| Flash Point | 400°F/204°C | 400°F/204°C | 400°F/204°C | 400°F/204°C |
| Pour Point | -25°F/-31°C | -60°F/-51°C | -60°F/-51°C | -60°F/-51°C |

Statement of Usage:

"These compounds may be used on food, beverage and pharmaceutical processing and packaging equipment as a protective anti-rust film, as a release agent on gaskets or seals of tank closures and as a lubricant for machine parts and equipment in locations in which there is potential exposure of the lubricated part to food, beverage, pharmaceutical and related packaging equipment. The amount used should be the minimum required to accomplish the desired technical effect on the equipment."

| <u>Packaging Available</u> | <u>SFL-2</u> | <u>SFL-1</u> | <u>SFL-0</u> | <u>SFL-00</u> |
|-----------------------------------|---------------------|---------------------|---------------------|----------------------|
| 35 lb. Pail | L0198-035 | L0197-035 | L0196-035 | L0195-035 |
| 120 lb. Drum | L0198-039 | L0197-039 | L0196-039 | L0195-039 |
| 420 lb. Drum | L0198-040 | L0197-040 | ----- | ----- |
| Case, 40/14½ oz. Cartridges | L0198-098 | L0197-098 | ----- | ----- |

| | <u>SFL-2</u> | <u>SFL-1</u> | <u>SFL-0</u> | <u>SFL-00</u> |
|---|---------------------|---------------------|---------------------|----------------------|
| *NSF H-1 Registration No's (Meets USDA 1998 Guidelines) | 113093 | 043677 | 119618 | 113092 |

*Authorized 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.

*NSF – National Sanitation Foundation

Manufactured with ingredients that comply with FDA 21 CFR 178.3570.

"The **LUBRIPLATE "SFL" Series** contain no components derived from TSE/BSE relevant animal species; therefore, they are compliant with the requirements of the TSE Note for Guidance EMEA/410/01 Rev. 2, October 2003".