Ωmega®
The Ultimate Lubricant

# 585

OMEGA 585 Synthetic Food-Grade Chain & Gear Oil

# Synthetic Food-Grade Chain & Gear Oil

- *All-synthetic formulation for meeting or even exceeding the stringent requirements of the food & beverage industry*
- *Extended operating temperature range for superior & tenacious lubricity from -30°C to 240°C*
- *Excellent protection against oxidation, rust & wear*
- *Available with ISO VG 220 & ISO VG 460 - a wider range of applications for maintenance professionals' selection*

TRUST OMEGA TO

*Save Money*
*Enhance Performance*
*Extend Service Life*

NSF®

Nonfood Compounds Program Listed
Category Code : H1
Registration Number : 165230

ITW PERFORMANCE POLYMERS & FLUIDS®
KOREA

ITW

# SPECIAL FEATURES

**Omega 585 Synthetic Food-Grade Chain & Gear Oil** is super formulation lubricant scientifically developed for food, beverage and canning applications.

- **Omega 585** features an all-synthetic formulation for a super-extended operating temperature range — -30°C to 240°C (-22°F to 460°F).
- **Omega 585** stands up to the full range of food industry conditions from hot steam & cold refrigeration.
- **Omega 585** has a high-performance blend of additives that give extended lubrication intervals.

# OUTSTANDING PROPERTIES

**Omega 585** is the synthetic food-grade chain and gear oil that:

- Contains absolutely no mineral oil, polycyclic aromatic hydrocarbons or any other potentially harmful ingredients.
- Is not undermined by contact with food-processing, canning or beverage-filling by-products such as citric and acetic acids, animal fats or blood products.
- Has minimal fling-off - stays tenaciously in place.
- Provides superior resistance to oxidation.
- Meets and exceeds USDA H-1 requirements.

# USE FOR

**Omega 585** has been thoroughly inspected and tested for purity. **Omega 585** can be left on treated parts and does not have to be flushed or steam-cleaned off daily.

Use **Omega 585** for:

- Food Processing Equipment • High-Heat Bottling Equipment
- Canning Equipment • Cooking Equipment • Chillers
- Blowers • Cold Room Guides • Blast Freezing Equipment
- Ice-Making Equipment

Omega 585 can also be used for:

- Chains to Guides • Conveyors to Rollers • Motors to Hoists
- And virtually all types of gear drives found in food, beverage and canning operations under various operating conditions.

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ITW PERFORMANCE POLYMERS & FLUIDS KOREA

The information contained in this publication is to the best of our knowledge and accurate at the time of issue in March, 2022

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## DESCRIPTION:

Omega 585 is an advanced, new, **All-Synthetic** Food Grade Chain & Gear Oil that provides for extended lubrication intervals by virtue of its high performance blend of additives that have been thoroughly inspected and tested for purity. Unlike ordinary chain oils that are used in food and beverage plants, Omega 585 can be left on treated parts and does not have to be flushed and steam-cleaned off daily, since it is officially-approved as a lubricant suitable for use in all types of food & beverages manufacturing equipment. Being fully synthetic, Omega 585 does not contain any mineral oil, polycyclic aromatic hydrocarbons or potentially harmful constituents.

## DYNAMIC QUALITIES:

Omega 585 clings tenaciously to applied parts and outperforms virtually all high performance lubricants used for food machinery. It features both a high Flash Point and an ultra low Pour Point and its extended service temperature range is from -30° to 240°C (-22°to 460°F). It therefore provides superior lubrication performance in both high heat equipment - such as bottling, canning and cooking equipment, and also in "reefer" (refrigerated) equipment, cold rooms and ice-making plant equipment.

This in-built versatility, combined with Omega 585's high performance specifications, make it the lubricant of choice for use throughout most food plants, on all types of equipment, including chain drives, conveyor systems, belt pulleys & bearings, guide ways, gear systems, baking oven chains, for drip feed or oil-bath applications as well.

## "PURE" PERFORMANCE:

Omega 585, in addition to providing exceptional anti-wear qualities due to its high lubricity, also provides exemplary rust prevention protection on applied parts and equipment. This is an important consideration, especially for food and beverage plant applications due to the high amounts of residual food extracts and acids, vegetable oils, fruit and citric acids plus the high humidity common to such environments.

Furthermore, Omega 585 is highly stable and therefore is not susceptible to adverse reaction or degradation when subjected to contamination with food processing waste, superheated steam, carbonating gases, and strong, natural or artificial seasonings, etc.

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## TYPICAL DATA:

| TEST | ASTM TEST METHOD | TEST RESULT | |
|---|---|---|---|
| | | ISO VG220 | ISO VG460 |
| Appearance | Visual | Off Color/ Water White | Off Color/ Water White |
| Density, kg/L @ 15°C | D-1298 | 0.852 | 0.908 |
| Viscosity, cSt @ 40°C | D-445 | 220 | 460 |
| Viscosity, cSt @ 100°C | D-445 | 23.7 | 47.7 |
| Viscosity, cSt @ -30°C | Calc. | 98,000 | N.A. |
| Viscosity Index | D-2270 | 135 | 141 |
| Flash Point, COC, °C(°F) | D-92 | 210(410) | 219(426) |
| Pour Point °C(°F) | D-97 | -36(-33) | -36(-33) |
| Total Acid Number, mg KOH/g | D-974 | 0.7 | 0.7 |
| Carbon Residue, Conradson, % | D-524 | 0.02 | 0.02 |
| Foaming Characteristics:- | | | |
| All Sequences, After Settling | D-892 | Nil | Nil |
| Rust-Preventing Characteristics | D-665 | Nil | Nil |
| Copper Strip Corrosion, 3 hours @ 100°C | D-130 | 1b | 1b |
| FZG Gear Test, Failure Stage Load | DIN 51354 | 12 | 12 |
| Evaporation Loss, 6.5 hours @ 205°C, % Mass | D-972 | 4.0 | 4.0 |

The characteristics given above are typical of current production only and slight batch to batch variations should be expected.

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