

SO70 perma Food Grade Oil

Synthetic lubricating oils for the food-processing and pharmaceutical industries

Description

perma SO70 is a lubricant for the food processing and pharmaceutical industry. It meets the requirements of the German law governing food products and associated ancillaries (LMBG, sec. 5, para 1, sentence 1) and the US requirements set forth in the "Guidelines of sec. 21 CFR 178.3570 of FDA regulations" and is in line with the requirements of NSF H1 registration.

perma SO70 meets the CLP requirements. When tested on the FZG gear test rig according to DIN 51 354, part 2, A/8,3/90, the oil showed a scuffing load of > 12 and a specific loss of weight of < 0.2 mg/kWh. Especially formulated for use in the food-processing and pharmaceutical industries, this lubricating oil exhibits good antiwear and EP properties as well as excellent low-temperature characteristics. The corrosion protection properties of this oil are very good as the ageing and oxidation stability. It also has a high resistance to shear and does not foam.

Application

perma SO70 is used for the lubrication of friction points in food-processing and pharmaceutical machinery. It is especially suitable for the lubrication of spur, bevel and worm gears, bearings, spindles and joints, as well as of lift, drive and conveyor chains at low temperatures.

Application notes

perma SO70 is a lubricant especially developed for the perma Lubrication Systems. To ensure adequate metering and maintenance-free lubrication, this product is only available in an perma Lubrication System. perma SO70 is miscible with mineral oils and polyalphaolefin oils. However, we recommend cleaning the oil circulation system or flushing it with the new oil prior to using perma SO70 for the first time. Especially with a view to the H1 requirements in the food-processing industry, any mixing of perma SO70 with non-food-grade lubricants should be avoided. For permanent temperatures at the seal edge up to 100 °C, NBR seals may be used. For higher temperatures, it is safer to use FKM seals instead.

Pack size

perma Lubrication Systems
Oil bottle on request

perma SO70

- NSF H1- registration
- Wide operating temperature range
- Excellent ageing and oxidation stability
- Good wear protection
- High scuffing load capacity
- Good corrosion protection
- Neutral towards seals and paints
- Fulfill CLP requirements

Minimum shelf life

The minimum shelf life is approx. 12 months if the product is stored in its unopened original container in a dry place.

Source of supply

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Product data

Base oil	ester / PAO
ISO VG DIN 51519	220
Cinematic viscosity, DIN 51561, at 40°C, mm ² /s	220
at 100°C, mm ² /s	26
Colour	colorless
Density, DIN 51757, at 20 °C, g/cm ³ , approx.	0.85
Viscosity index, DIN ISO 2909	150
Pourpoint, DIN ISO 3016, °C	< -30
Service temperature range, °C	- 30 to 120
Compatibility with elastomers	
towards 72 NBR 902 at 100 °C / 168 h change in volume %	+2
change in hardness (Shore A), approx.	0
towards 75 FKM 585 at 130 °C / 168 h change in volume %	+1
change in hardness (Shore A), approx.	-1