

PRODUCT DATA SHEET

FOODGUARD Gear Oil

PAO Full Synthetic, High Performance Food Grade Gear Oils

PRODUCT DESCRIPTION

FOODGUARD Gear Oils are PAO based, ultra-shear, fully synthetic food grade gear oils particularly suited for the lubrication of drive chains, conveyor chains, gearboxes and reduction units. Ensure the correct recommended ISO grade is used for each gearbox. **FOODGUARD Gear Oils** contain special additives that extend re-lubrication intervals. These oils can also be used as chain oils up to 200°C and 240°C for short periods of time depending on the grade used.

PRODUCT BENEFITS

- NSF: H1 registered (Lubricant with incidental food contact- for use in and around food processing areas)
- Extremely good oxidation stability which extends lubricant life
- Unaffected by water – demulsibility ensures total separation of water from oil
- Adhesive additives coat gears and provide anti-wear protection at start-up
- Synthetic oil with high Viscosity Index ensures reduced viscosity change with temperature increase
- Temperature range Gear Oil 150 -30°C to 200°C , Gear Oil 220,320,460,680 30°C to 240°C
- Kosher and Halal certified

PRODUCT BENEFITS for chain applications

- NSF: H1 registered (Lubricant with incidental food contact- for use in and around food processing areas)
- Penetrates to the links and pins reducing wear and extending chain life
- Adhesive additives ensure non-drip, no fling thus providing lasting lubrication
- Excellent adhesive characteristics ensures a high degree of water resistance and protects parts from corrosion even in the presence of alkali materials commonly associated with the food industry
- Extremely wide temperature range ensures maximum application versatility

TYPICAL APPLICATIONS

- Suitable for use in all gear boxes and reduction units
- Equipment drive gear boxes
- Worm drive gears
- Conveyor drive gear boxes
- Drive Chains
- Conveyor chains

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PROPERTIES OF MATERIAL

Technical Data

ISO Viscosity		150	220	320	460	680
Appearance	-	Clear adhesive oil				
Base oil	-	Blend of synthetic oils				
Kinematic Viscosity (ASTM4451) @ 40°C cSt	-	149	218	322	458	678
Kinematic Viscosity (ASTM4451) @ 100°C cSt	-	17.7	23.8	31.3	40	48
Viscosity Index (ASTM D2270)	-	136	135	134	133	135
Foaming (ASTM D892) after settling Seq 1	-	Nil	Nil	Nil	Nil	Nil
Sequence 2	-	Nil	Nil	Nil	Nil	Nil
Sequence 3	-	Nil	Nil	Nil	Nil	Nil
Copper corrosion (ASTM D130)	-	1b	1b	1b	1b	1b
FZG Gear Test Stage	-	12	12	12	12	12
Pour Point °C	-	-40	-35	-35	-30	-30
Flash Point Open Cup °C	-	260	275	280	280	280
Demulsibility (ASTM D1401) 30 min	-	40-37-3				

GENERAL INFORMATION

Ensure that the gearbox manufacturers' lubricant rating corresponds to using the ISO grade recommended. For optimum performance, drain gearbox of previous lubricant.

HEALTH AND SAFETY INFORMATION

All ingredients are FDA listed ingredients under 21 CFR 178.3570. **FOODGUARD Gear Oils** are NSF H1 registered and meet the USDA 1998 H1 Guidelines. These products do not contain genetically modified ingredients, and nut oil or derivatives. The product is non hazardous. A Material Safety Data Sheet is available from the Guardian Food Grade Oils Technical Department upon request or available on our website.

Product Code: 150 - 6319, 220-6320, 320-6321, 460-6322, 680-6323

Pack Size: 5L, 20L, 205L, 1000L

The content of this data sheet is given in good faith but without warranty (August 2017).