

Description

A range of fully synthetic food grade gear oils particularly suited for the lubrication of Helical, Bevel Helical, Planetary and worm gears, gearboxes and reduction units. Ensure the correct recommended ISO grade is used for each gearbox. **Syntech Food PG** gear oils contain special additives that extend relubrication interval, reduce wear, and resist micro-pitting, high load carrying and corrosion protection. **Syntech Food PG** is formulated for applications where MOSH, POSH and MOAH are prohibited.

Outstanding Features

- Extends life span of the installation
- Reduces maintenance
- Optimal protection of gear boxes against fretting and wear
- Longer drain interval, even at higher working temperatures
- Excellent thermal and oxidation stability
- Low pour point
- Protection against rust and corrosion
- Optimal lubrication at high and low temperatures, even at heavy loads
- Very good compatibility with plugs and seals

Technical Data

		<u>Typical Properties</u>				
ISO VG	Test Method	150	220	320	460	680
Density @ 20°C, kg/L	IP 160	0.944	1.006	1.005	1.007	1.002
Viscosity @ 100°C, mm ² /s	IP 71	24	30	44	67	88
Viscosity Index	IP 226	195	177	196	222	219
Flash Point, °C	IP 34	284	284	284	284	287
Pour Point, °C	IP 15	-30	-30	-30	-28	-30
FZG Failure Load (A/8. 3/90)	IP 334	>13	>13	>13	>13	>13
Timken OK Load, lbs.	ASTM D2782	27	27	35	35	-
Copper Corrosion	IP 154	1b	1a	1b	1a	1a
Corrosion, Rust Prevention	IP 135					
Procedure A	(ASTM D665)	Pass	Pass	Pass	Pass	Pass
Procedure B		Pass	Pass	Pass	Pass	Pass
Air Release, min @ 90 °C	ASTM D3427	19	17	27	25	27
Volume of foam, ml						
Sequence 1	-	Nil/nil	Nil/nil	Nil/nil	Nil/nil	Nil/nil
Sequence 2		Nil/nil	Nil/nil	Nil/nil	Nil/nil	Nil/nil
Sequence 3		Nil/nil	Nil/nil	Nil/nil	Nil/nil	Nil/nil
Demulsibility	ASTM D1401					
Emulsion, ml		3	3	0	0	3
Free Water, ml		37	37	40	40	37

Flush Procedures

Syntech Food PG is NOT compatible with mineral oils. When changeover from mineral gearbox oil to **Syntech Food PG**, the gearbox must be thoroughly drained, flushed and cleaned. When charging from mineral oil to **Syntech Food PG Gear oils** the following procedure should be used.

- The system should be run until the mineral oil is warm, then it is drained fully including the reservoirs, lines etc. The system should be cleaned of residual sludge.
- Flush the system with a minimum quantity of **Syntech Food PG Gear oils** by operating under no load, and then drain the system while the fluid is still warm. Repeat if necessary.

- Seals, etc., should be inspected and replaced if worn. Seals previously exposed to mineral oil may shrink when exposed to **Syntech Food PG Gear oils** and therefore it may be advantageous to replace them. The system is then filled with **Syntech Food PG Gear oils**. It is useful to inspect the lubricant after one or two days in use to make sure that it is free of extraneous materials. Contamination with significant quantities of other lubricants can, in some cases, lead to sludging, foaming and other problems.

Materials Compatibility

Polyurethane based elastomers, leather, cork, asbestos and paper should be avoided. Common seals and gaskets are unaffected by **Syntech Food PG Gear oils**. Nitrile (NBR), fluoro-silicone and vinyl-methyl polysiloxane are recommended especially where high temperatures are involved.

Ordinary industrial paints soften in the presence of these products. Internal gearbox surface should be unpainted, or coated with resistant materials, for example a resistant two-pack epoxy formulation.

Directions of Use

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

This product is produced in a manufacturing facility audited and certified by NSF as compliant under ISO 21469 standards.

Approvals/Registration



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The content of this data sheet is given in good faith but without warranty.