



LUBCON High Performance Gear Lubricants

Gears have to provide a smooth power transmission for machinery components while often being continuously in operation, especially in the food industry. Bevel, planetary, worm and cylindrical gears are often exposed to high demands and have to withstand water, cleaning agents and disinfectants as well as extreme thermal stress and highly corrosive environments. To provide long service life and reliable operation in such demanding operation conditions, LUBCON offers fully synthetic gear oils with high corrosion and wear protection. LUBCON semi-fluids as well as high and low temperature gear oils feature high efficiency and enable extended service life, even when subject to the harshest operating conditions.



Lubricant Selection for Gears

The following details are important for a correct gear lubricant selection:

- gear type (tooth geometry)
- power
- speed (ratio)
- operating temperature
- operating conditions

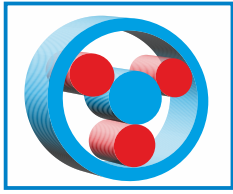
Usually the selection of a suitable lubricant is done by the manufacturer during the constructive planning of the gear. During this phase it is very important that the lubricant is not only considered as a necessary operating material, but is given the status of an essential construction element. A thorough and correct lubricant selection has a significant effect on service life and maintenance. A supposedly equivalent, cheaper lubricant might result in higher follow-up costs during the production process and for maintenance. Those follow-up costs are normally much higher than the savings achieved in the purchase of the lubricant itself.

The minimum requirements for circulating and gear oils are standardized in DIN 51517-1 to -3 in ISO 12925-1 and in AGMA 9005. However, characteristics of these oils as wear protection, oxidation resistance, corrosion protection and compatibilities can be very diverse.

Please contact the experts at LUBCON in case of any questions.

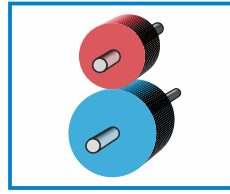


Gear Systems



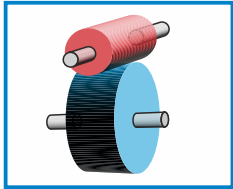
Planetary Gear

Shaft Position: Inner Parallel
Tooth Contact: Line



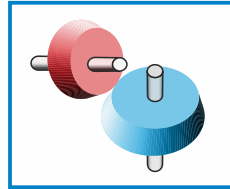
Spur Gear

Shaft Position: Parallel
Tooth Contact: Line



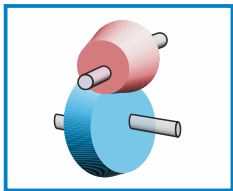
Worm Gear

Shaft Position: Crossing
Tooth Contact: Line



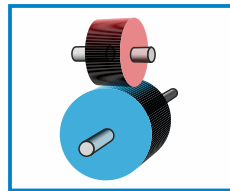
Bevel Gear

Shaft Position: Intersecting
Tooth Contact: Line



Hypoid Gear




Shaft Position: Crossing
Tooth Contact: Line






Crossed Helical Gear

Shaft Position: Crossing
Tooth Contact: Point

Gear Oils

NAME	FZG	ISO	OILTYPE	VISCOSITY INDEX	GEAR TYPE
TURMOGAROIL VG EP	12	68 - 680	Mineral	100 - 110	Planetary & Worm Spur
TURMOGAROIL PE	≥12	68 - 680	Synthetic PAO / Ester	120 - 130	Planetary & Worm Spur
TURMOFLUID GV	12	68 - 1.000	Synthetic	140 - 150	Planetary & Bevel Hypoid
TURMOPOLOIL EP	14	32 - 680	Polyglycol	225 - 270	Bevel & Hypoid Crossed Helical
TURMOSYNTH VG	 12	68 - 1.500	White Oil	120 - 125	Planetary & Worm Spur
TURMOSYNTHOIL GV	 12	68 - 1.000	Synthetic	140 - 150	Planetary & Worm Spur
TURMOSYNTHOIL PG	 12	68 - 1.000	Polyglycol	250 - 270	Bevel & Hypoid Crossed Helical

Semifluid Gear Greases

NAME		TYPE	OIL / ISO	OILTYPE	NLGI	GEAR TYPE
THERMOPLEX ALN		1001/00*	100	PAO	00	Planetary & Worm Spur
THERMOPLEX ALN		4602/00	460	PAO	00	Planetary & Worm Spur
TURMOSYNTHGREASE ALN		1001/00*	100	Synthetic	00	Planetary & Spur Bevel
TURMOSYNTHGREASE ALN		2502/00*	250	Synthetic	00	Planetary & Spur Bevel
TURMOSYNTHGREASE ALN		4602/00	460	Synthetic	00	Planetary & Bevel Hypoid
TURMOPOLGREASE 00		00*	220	Polyglycol	00	Bevel & Hypoid Crossed Helical
TURMOTEMP II 400		RS 00	500	PFPE	00	Planetary & Spur Bevel
TURMOTEMP N		5002/00	500	PFPE	00	Planetary & Spur Bevel
TURMOTEMP M		1502/00	150	PFPE	00	Low Temp Bevel

*also available in NLGI 000.

Converting gear boxes to H1 food grade lubricants

It is highly recommended to flush gearboxes (e.g. with **LUBCON® Turmoflush FG 15**) when converting from conventional oil to H1 registered lubricants in order to achieve adequate cleanliness and full performance of the new lubricant. Detailed instructions for oil and grease change procedures can be obtained from your LUBCON® Representative.



Minimise the risk of mixing up:

LUBCON H1 lubricants are mostly sold in white packagings in order to easily differentiate from non-H1 lubricant.

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