



GEAR SINTEC CLP

Fully synthetic industrial gear oils based on PAO

Description

GEAR SINTEC CLP oils are fully synthetic high-performance industrial gear oils based on polyalphaolefins. They have excellent load absorption capabilities and high resistance to oxidation, including under difficult operating conditions. Thanks to the fully synthetic base fluids and the specially coordinated additives, full use can be made of the extended oil change intervals, even under very high thermal loads.

Advantages

- Very good wear protection
- Excellent viscosity / temperature characteristics
- High scuffing load-carrying capacity
- Excellent air release capability
- Outstanding corrosion protection
- Extremely well suited to gears exposed to high fluctuations in temperature

Field of application

For all spur, bevel and planetary gears produced by all well-known manufacturers. Thanks to its excellent viscosity temperature characteristics and the very effective corrosion protection, this lubricant is the obvious choice for use in industrial gears for machines, mountain railways, industrial/waste water treatment plants and other systems exposed to heavy loads and extremely difficult operating conditions.

Specifications

The products meet and exceed the requirements in accordance with:

DIN 51 517/T3: CLP
 ISO 6743-6 and ISO 12925-1: CKC / CKD
 AGMA 9005/E02:EP
 SED 181226
 AIST 224
 Siemens AG, 46395 Bocholt,
 FLENDER, Rev.13 (ISO VG 220 - 680)
 ROLLSTAR, planetary gear

Technical data

Properties	Unit	Test according to	Values							
Viscosity class	ISO VG	DIN ISO 3448	68	100	150	220	320	460	680	1000
Colour		DIN ISO 2049	light brown →	→	→	→	→	→	→	→
Designation as per		DIN 51502	CLPHC →	→	→	→	→	→	→	→
Density at 20 °C	g/ml	ASTM D 4052	0.848	0.855	0.853	0.858	0.859	0.862	0.864	0.874
Viscosity at 40 °C	mm ² /s	DIN 51562-1	72.3	106.5	157.2	227	323	456	679	1034
Viscosity at 100 °C	mm ² /s	DIN 51562-1	11.7	16.4	22.6	26.4	37.5	46.1	64	103
Viscosity index		DIN ISO 2909	58	168	172	149	165	153	164	194
Pour point	°C	ASTM D 5950	-63	-60	-57	-45	-45	-45	-39	-42
Flash point	°C	DIN ISO EN 2592	≥200	≥200	≥200	≥200	≥200	≥200	≥200	≥200
Corrosion test B steel	Corr. level	DIN ISO 7120	0	0	0	0	0	0	0	0
Copper corrosion	Corr. level	DIN EN ISO 2160	1	1	1	1	1	1	1	1
FZG A/16.6/140	Fail load stage									
Starting temperature: 140°C		DIN ISO 14635-1	>12	>12	>12	>14	>14	>14	>12	> 12
FZG-GFT* test GT- C/8.3/60 / C/8.3/90										
Stage test/continuous test	GF class	FVA-54/I-IV	GFT	GFT	GFT	GFT	GFT	GFT	GFT	GFT
			High	High	High	High	High	High	High	High

* GFT = micro pitting test

Water hazard class: WGK 1

Disposal code: VeVA/EWC 130 206

The above information is subject to change without prior notice, although it is in accordance with current standards. Performance characteristics indicated are based on usual tolerances which occur during measuring and production using the latest technology. A safety data sheet is available.



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