



INDUSTRIAL GEAR OILS

ADDINOL POLY GEAR PG 100, 220, 320, 460, 680

PRODUCT DESCRIPTION

ADDINOL Poly Gear PG ... are fully synthetic fluids based on non water miscible polyalkylene glycol (PG) and an effective additive combination for ideal wear protection, improved ageing stability, optimal corrosion protection as well as inhibition of foam formation.

APPLICATION

- Excellent suitability for the application at high temperatures up to +180°C, short term up to +200°C
- Preferably applied for sliding and roller bearings as well as heavy loaded industrial gears (e.g. calender plants)
- Highly suited for the lubrication of worm gears
- Not mixable with:
 - Gear oils based on mineral or native oil
 - Gear oils based on synthetic oil (PAO, ester)

SPECIFICATIONS

Meets the requirements according to:

- DIN 51517-3 (CLP)
- ISO 12925-1 (CKT)

Approved by:

- C.H. Schäfer Getriebe GmbH
- KHS Maschinen und Anlagen
- Lingl Anlagen- und Verfahrenstechnik

Viscosity grade corresponds to:

- DIN 51519
- ISO 3448

DELIVERY

Delivery preferable in tanker and 20 l cans.

CHARACTERISTICS

- Outstanding scuffing load capacity and very good wear protection behaviour
- High lubricant film thickness
- Outstanding sliding friction properties
- Improved ageing stability
- Excellent viscosity-temperature behaviour
- Extremely high temperature stability, very good low temperature behaviour
- Compatible with elastomers

ADVANTAGES AND BENEFITS

- Longer machine lifetime (reduced running costs)
- **Setback of the temperature in worm gears in comparison to mineral oils**
- **Significantly longer service life in comparison to common gear oils**
- **Ideal lubrication at different and various operating conditions in a wide temperature range**
- **Usable also at very high temperatures**
- **Neutral behaviour towards the important sealing materials, e.g. HNBR, EPDM rubber**





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SPECIFICATIONS AND TYPICAL PARAMETERS

Feature	Test condition / unit		PG 100	PG 220	PG 320	PG 460	PG 680	Method acc. to
ISO viscosity grade			100	220	320	460	680	DIN 51519
Application temperature			up to +180°C, short term up to +200°C					
Density	at 15°C	kg/m ³	1000	1016	1020	1012	1008	DIN 51757
Viscosity	at 40°C	mm ² /s	106	225	330	470	685	ASTM D 7042
	at 100°C	mm ² /s	19	35	51	75	104	
Viscosity index			200		216	233	250	DIN ISO 2909
Flash point	COC	°C min.	240	260	270		300	DIN EN ISO 2592
Pour point		°C max.	-42	-40	-38		-35	ASTM D 7346
Corrosion protection on steel			passed					DIN ISO 7120
Corrosivity on copper	100°C, 3h	corr.level	1					DIN ISO 2160
FZG test A/16,6/140		load stage	> 12					DIN 51354-2
Foaming characteristics	at 24°C	ml / ml	0 / 0					ASTM D 892
	at 93.5°C	ml / ml	0 / 0					
	at 24°C after 93.5°C	ml / ml	0 / 0					

ADDINOL - The Experts for High-Performance Lubricants

We at ADDINOL develop and produce more than 600 high-performance lubricants of the new generation. Among these are automotive lubricants for highest demands and pioneering developments for industrial applications. Our customers all over the world benefit from the high and stable quality of our ADDINOL high-performance lubricants, our know-how and the individual customer advisory service of our competent experts. Our company has world wide activities. ADDINOL high-performance lubricants are distributed by more than 90 international partners.

The data given in this product sheet represent our current level of knowledge and experience. Due to the various specific application they do, however, not discharge the user from his own examination. The information provided herein may not be used to derive a legally binding warranty of specific properties or the suitability for a certain purpose of application. Detailed security-concerning and toxicological data as well as security instructions for each product can be taken from the corresponding Material Safety Data Sheets (MSDS). High-performance lubricants from ADDINOL are under continuous development. Therefore, ADDINOL Lube Oil GmbH keeps the right to change technical data in this product data sheet without notification. In case of doubt, please do not hesitate to contact our customers' advisory service.