



## INDUSTRIAL GEAR OILS

# ADDINOL GEAR OIL CKT 68, 100, 150, 220, 320, 460, 680

### PRODUCT DESCRIPTION

ADDINOL Gear oils CKT are demulsifying, fully synthetic gear oils based on synthetic components (PAO) and zinc-free additives.

### APPLICATION

- Excellent suitability for all applications, which demand fully synthetic gear oils of the type CLP with long-term properties
- For closed gears with immersion or circulation lubrication
- Particularly suitable at increased demands on high and low temperature behaviour (-30° C up to +120° C).
- Reliable and safe lubrication of highly loaded bearings, joints, pressure spindle, spur and worm gears also under temperature peaks up to +150°C

### PLEASE NOTE

The selection of the viscosity depends on the applications, the operating conditions as well as the manufacturer instructions in the respective application. In comparison to common CLP oils based on mineral oil a significantly longer oil change interval can be achieved in gears and circulating systems with oil sump temperatures up to +90°C.

### CHARACTERISTICS

- Excellent water separation ability, low foaming tendency, good air separation ability
- High micro-pitting resistance
- Good corrosion protection
- High viscosity index, excellent viscosity-temperature behaviour
- Excellent ageing resistance
- Mixable with mineral and ester gear oils

### SPECIFICATIONS

Meet and surpass the requirements of:

- DIN 51517-3 (CLP)
- ISO 12925-1 / ISO 6743-6 (CKC/CKD, CKE)

CKT 68 up to CKT 150 meets the requirements of:

- DIN 51524-3 (HVLP)
- ISO 11158 / EN ISO 6743-4 (HV)

Viscosity grade corresponds to:

- DIN ISO 3448

### DELIVERY

Delivery preferable as loose commodity, in drums and 20L cans.

### ADVANTAGES AND BENEFITS

- **Effective protection against foam formation in practical applications**
- **Ideal protection of friction pairings**
- **Very good protection of machine parts with lower maintenance and repair costs**
- **Highly suitable for high as well as low temperature applications, multi-grade character**
- **Long service life of the oil filling**
- **Enables a problem-free oil change to ADDINOL gear oils**





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## SPECIFICATIONS AND TYPICAL PARAMETERS

Feature	Test condition / unit		CKT 68	CKT 100	CKT 150	CKT 220	CKT 320	CKT 460	CKT 680	Method acc. to
ISO viscosity grade			68	100	150	220	320	460	680	DIN ISO 3448
Density	at 15°C	kg/m <sup>3</sup>	841	844	848	856	857	860	866	DIN 51757
Viscosity	at 40°C	mm <sup>2</sup> /s	72	100	155	230	325	470	645	ASTM D 7042
	at 100°C	mm <sup>2</sup> /s	11.1	14.2	19.6	26.8	34.5	45.6	55	
Viscosity index			145	146	146	150	150	155	147	DIN ISO 2909
Flash point	COC	°C min.	248	254	250					DIN EN ISO 2592
Pour point		°C max.	-51	-50		-45	-45	-43	-40	ASTM D 7346
Corrosion protection on steel			passed							DIN ISO 7120
Corrosivity on copper	at 100°C, 3h	corr.level I	1							DIN ISO 2160
Ageing behaviour	after 312h at 95°C	mg KOH/g	< 6,0							ISO 4263-1
Demulsifying ability		min	< 20					< 50		DIN ISO 6614
FZG test A/8,3/90		load stage	> 14							ISO 14635-1
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							
Foam and air separation characteristics at Flender foam test	Vol.increase 1 min, % Oil-air-mixture., 5 min, %		< 15 < 10							ISO 12152

### 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.