



HYDRAULIC OILS

ADDINOL HV-SYNTH 32, 46, 68

PRODUCT DESCRIPTION

ADDINOL HV-Synth are synthetic hydraulic fluids based on polyalphaolefines (PAO). The products are being developed with all the latest additive technology to achieve outstanding friction behaviour compared to conventional hydraulic fluids. By high-performance base components and additives, the products offer considerable energy saving potential and significantly increased lifetimes.

Operating temperature: -30°C up to +120°C

APPLICATION

- Excellent suitability for heavy loaded pressure systems, e.g. presses in ceramic or plastic industry
- Application at constantly high temperature differences
- Permanent and long-time application possible
- Application in large industrial installations with integrated thermal processes
- Suitable for pressure systems in refrigeration systems, e.g. conveyor technique, control cylinders on doors and windows

SPECIFICATIONS

Meets the classification according to:

- DIN 51524-3
- ISO 11158 (HV)
- AFNOR NFE 48-603 (HV)
- CETOP RP 91 (HV)
- DIN EN ISO 6843-4 (HV)
- Denison HF-0, HF-1 und HF-2

Viscosity grade corresponds to:

DIN ISO 3448 or rather DIN 51519

DELIVERY

Delivery preferable in drums and 20 I cans.

CHARACTERISTICS

- Newly developed additive technology with outstanding friction behaviour
- Naturally high VI, high shear stability
- Resistant to conventional sealing materials and varnishes High compatibility
- · High wear and corrosion protection
- · Very good ageing behaviour

· Multi-grade character

· Zinc-free

ADVANTAGES AND BENEFITS

- Energy saving, low operating costs
- Equilibrated compression ratio at high temperatures
- · Failure-free operation also at using different materials
- · Long oil lifetime
- · Reduction of the product range; easier logistic handling
- · Friendly to environment



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SPECIFICATIONS AND TYPICAL PARAMETERS

Feature	Test conditions / unit		HV-SYNTH 32	HV-SYNTH 46	HV-SYNTH 68	Method acc. to
ISO viscosity grade			32	46	68	DIN ISO 3448
Density	at 15°C	kg / m³	836	840	843	DIN 51757
Viscosity	at -20°C	mm²/s	560	1967	3420	ASTM D 7042
	at 40°C	mm²/s	32,1	45	69	
	at 100°C	mm²/s	6,1	7.7	10.8	
Viscosity index			140	140	146	DIN ISO 2909
Flash point	COC	°C	257	min. 265	278	DIN EN ISO 2592
Pour point		°C	-57	min42	-44	ASTM D 7346
Ageing behaviour Increase of NN	after 1000h	mg KOH/g	< 0,5			DIN EN ISO 4263-1
Corrosion protection on steel	method A / B	corr.level	Passed			DIN ISO 7120
Corrosivity on copper	3 h, 100°C	Corr.level	1			DIN ISO 2160
Relative drop in viscosity by shearing after 20h	at 40°C	%	< 1,0			- DIN 51350-6
	at 100°C	%	< 0,5			
FZG A/8,3/90		scuffing load stage	12 > 12			ISO 14635-1
Brugger		N/mm²	21	22	23	DIN 51347-2
Air separation ability	at 50°C	minutes	2	5	6	ISO 9120
Demulsifying properties	at 54°C	minutes	10 15			ISO 6614
Foam characteristic	at 24°C	ml / ml	0/0			ASTM D 892
	at 93.5°C	ml / ml	0 / 0			
	at 24 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.