



LUBRICANTS FOR FOOD INDUSTRY

ADDINOL FOODPROOF HLP 15 S, 22 S, 32 S, 46 S, 68 S, 100 S

PRODUCT DESCRIPTION

ADDINOL FoodProof HLP ... S are fully-synthetic hydraulic oils based on PAO. The products are characterised by its neutral smell and light colour.

All ingredients of ADDINOL FoodProof HLP ... S are physiologically harmless and meet the European guidelines, the NSF category H1 as well as the requirements acc. to Kosher and Halal. The ingredients also meet the internationally accepted FDA standards and they are free from allergens acc. to Regulation (EU) No. 1169/2011, annex II.

Application temperatures:

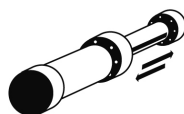
- -40°C up to +120°C: ISO-VG 15 and 22
- -35°C up to +120°C: ISO-VG 32
- -30°C up to +120°C: from ISO-VG 46

APPLICATION

- Excellent suitability as pressure medium for industrial hydraulic plants of various construction types
- Ideal for applications in food, feed, cosmetics as well in pharmaceutical industry with high requirements on the lubricant
- Highly recommended for lubrication points where an incidental contact with food cannot be excluded

CHARACTERISTICS

- Light colour, neutral in smell and taste, physiologically harmless, NSF-H1 registered
- Efficient EP/AW additivation
- Reliable corrosion protection
- Neutral towards common sealing materials and paints
- Excellent air and water separation, low foaming tendency



APPROVALS / SPECIFICATIONS

Listed and approved acc. to:

- NSF-H1 (please see page 2 for registration numbers)
- Kosher
- Halal

Meet the purity requirements according to:

- 21 CFR 178.3570 (FDA)

Meet and surpass the requirements of the specification according to:

- DIN ISO 3448
- DIN 51524-2 (HLP)
- DIN 51524-3 (HVLP) from ISO VG 32

DELIVERY

Delivery preferable in drums and 20L cans.

PLEASE NOTE

An overlubrication is to be avoided to prevent an unnecessary pollution of food and commodities.

ADVANTAGES AND BENEFITS

- Highly recommended for lubrication points where an incidental contact with food cannot be excluded
- Effective wear protection and scuffing load capacity
- Also usable for higher requirements on the lubricant
- Excellent protection of machine parts and trouble-free operation
- Outstanding protection towards leakages due to a long lifetime of the sealing material
- Excellent safety against cavitations and foam formation



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SPECIFICATIONS AND TYPICAL PARAMETERS

Feature	Test condition / unit		FoodProof HLP						Method acc. to
			15 S	22 S	32 S	46 S	68 S	100 S	
ISO viscosity grade			15	22	32	46	68	100	DIN ISO 3448
Application temperature		°C	-40 up to +120		-35 up to +120	-30 up to +120			
NSF registration number			154386	154387	154388	154389	154390	154391	
Density	at 15°C	kg/m ³	819	824	829	833	836	839	DIN 51757
Viscosity	at 40°C	mm ² /s	15.6	21.5	31.5	47.2	65.1	101.5	ASTM D 7042
	at 100°C	mm ² /s	3.7	4.6	6.1	8.1	10.4	15.2	
Viscosity index			123	130	144	145	149	157	DIN ISO 2909
Flash point	COC	°C	190	220	230	240	265	270	DIN EN ISO 2592
Pour point		°C	-70	-70	-60	-60	-60	-60	ASTM D 7346
Corrosion protection on steel	Method A	corr.level	passed						DIN ISO 7120
Corrosivity on copper	at 100°C, 3h	corr.level	1						DIN EN ISO 2160
FZG test A/8.3/90		load stage				≥ 12			DIN 51354-2
Air separation capacity	at 50°C	Min	2		5		10		DIN ISO 9120
Demulsifying ability	at 54°C	Min	5				10	-	DIN ISO 6614
	at 82°C	Min	-				10		
Foaming characteristics	at 24°C	ml/ml	<50 / 0						ASTM D 892
	at 93.5°C	ml/ml	<50 / 0						
	at 24°C after 93.5°C	ml/ml	<50 / 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.