

# swd HYDRALUBE HLP - AL

ISO VG 22, 32, 46 & 68

## Ashless HLP - Hydraulic Oil meeting DIN 51524, Part 2

### Description

**swd HYDRALUBE HLP-AL** - hydraulic oils are produced from high quality mineral base stocks and with new generation additives, which are free of zinc and silicone. This leads to product properties, which meet and even exceed the requirements of DIN 51 524 part 2 and similar specifications. Especially to be highlighted :

- excellent thermal and oxidation stability
- good air release and excellent foaming tendency
- very good wear protection and assured oxidation stability
- good demulsifying power and excellent filtrability
- good compatibility with material coatings and elastomers
- extreme loadability

### Application

**swd HYDRALUBE HLP-AL** - hydraulic oils are used in steady state and in mobile hydraulic units, and in high pressure systems as well. They are recommended for many industrial applications, as construction machines, injection molding machines, oil-injected compressors, roller and slide bearings, presses and in the paper-, automotive- and steel-industry.

### Qualification

- ❖ DIN 51 524 part 2 HLP
- ❖ AFNOR NF E 48 603 HM
- ❖ ISO 6743/4 HM

### Typical Properties

swd HYDRALUBE HLP - AL	unit	value				method
ISO-VG class		<b>22</b>	<b>32</b>	<b>46</b>	<b>68</b>	DIN 51 519
Density at 15°C	kg/m³	865	874	879	883	DIN 51 757
Kinematic viscosity at 40°C	mm²/s	22	31	46	68	DIN 51 562
Kinematic viscosity at 100°C	mm²/s	4,3	5,3	6,8	8,8	DIN 51 562
Pour point	°C	-36	-33	-33	-24	DIN ISO 3016
Flash point	°C	210	226	232	238	DIN ISO 2592
Air release at 50°C	minutes	3	4	5	8	DIN 51 381
Water content	wt. %	< 0,02				DIN 51 777 T.1
FZG-test (A/8,3/90/20)	damage loading step	>=12				DIN 51 354 T. 2

Article-No. : **34122** **34132** **34146** **34168**

Specification variations in these characteristics may occur.  
The instructions of manufacturer must be regarded.  
Further informations to be available by MSDS.

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