



## Aral Vitam DE 32

Hydraulic oil HLP-D type

### Applications:

Aral Vitam DE 32 gives an increased service life and optimizes the functional safety of hydraulics. This HLP-D type hydraulic fluid with detergent/ dispersant properties has the following advantages over conventional hydraulic oils: Through the continuous cleansing of impurities, deposits and residues in systems are avoided, which could cause a malfunction of control elements. Through this oil's absorption of humidity, corrosion is avoided. It also reduces wear in areas with boundary lubrication and its polar additives suppress "stick-slip" movements.

### Operational area:

Aral Vitam DE 32 is fundamentally suited for all kinds of hydraulics, particularly in unfavorable operating conditions (e.g. frequent temperature changes, humidity as well as impurities through emulsion, dust and other foreign elements) or when the danger of excessive vibrations exists (e.g. in construction equipment, machine tools and slow motion hydraulics). Aral Vitam DE 32 has a very good absorption of humidity, optimal corrosion prevention, dependable wearing protection and an outstanding ageing stability. In addition, this product has an anti-redeposition power, cleaning efficiency, as well as reduces stick-slip (Stick-Slip-Effect) and is free from zinc compounds. These properties make Aral Vitam DE 32 suitable for slide way applications requiring an ISO VG 32.

### Technical Data

Density at 15 °C	g/ml	DIN 51757	0,872
Viscosity			
0 °C	mm <sup>2</sup> /s	DIN 51562	340
40 °C	mm <sup>2</sup> /s	DIN 51562	32
100 °C	mm <sup>2</sup> /s	DIN 51562	5,2
Viscosity Index		DIN ISO 2909	100
Pourpoint	°C	DIN ISO 3016	-27
Flash point COC	°C	DIN ISO 2592	210
Neutralization number	mg KOH/g	DIN 51558-1	0,22
Ageing characteristics			
Increase n.n. after 1000 h	mgKOH/g	DIN 51587	<2,0
Air release time at 50 °C	min	DIN 51381	<5
Corrosiveness			
on copper	Korr. Grad.	DIN EN ISO 2160	1-100 A3
on steel	Korr. Grad.	DIN ISO 7120	0-A
Foaming characteristics			
at 24 °C	ml	ISO 6247	<100/0
at 95 °C	ml	ISO 6247	<25/0
at 24 °C after 95 °C	ml	ISO 6247	<10/0
FZG test A/8,3/90	SKS	DIN 51354-2	>=10

**Remarks:**

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All data is subject to development for the product and the production process.

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