

# STRUB Vulcoway 32+ - 320+

Highly demulsifying slideway oil as well as oil for central lubrication systems

## Description

Special demulsifying slideway oils and oils for central lubrication of the highest quality.

## Application

Suitable for machine tools with horizontal or vertical slides, where mixing of slideway oil and water-mixed coolant cannot be avoided, as well as for central lubrication systems.

## Features and advantages

- extremely low coefficient of friction according to Schmidt, resulting in lower heating of the slideways, this allows high speeds, drive power is lower
- no stick-slip, a must for metallic pairings
- no attack on plastic coated slideways (epoxy)
- excellent demulsibility and good compatibility with water-miscible coolants, SKC rating. (Documents are available)
- very good oxidation stability, highly effective corrosion protection
- balanced EP properties and wear protection
- good adhesion, also to vertical guides
- very good sliding behavior with various material combinations
- compatible with all mineral oil resistant sealing materials, non-ferrous metals and paints
- extremely precise guidance of the machine is made possible
- more odorless than most multifunctional oils

## Specifications

Slideway oil type CGLP, DIN 51502
Hydraulic oil type HLP, DIN 51524 part 2 and Afnor
Industrial gear oil type CLP DIN 51517 part 3
Cincinnati Machine P-47 (ISO 68)
Cincinnati Machine P-50 (ISO 220)
Cincinnati Machine P-53 (ISO 32)
Approvals from the most important machine manufacturers

## Technical data

	Test Methode	VG 32+	VG 46+	VG 68+	VG 100+	VG 150+	VG 220+	VG 320+
Art. No.		31128	31172	30937	30936	31140	31047	32043
Density at 20°C g/ml	DIN 51757/1	0.856	0.875	0.880	0.888	0.890	0.894	0.900
Visc. 40°C mm <sup>2</sup> /s	ASTM D 445	32.9	44.3	67.5	98	150	228	320
Visc. 100°C mm <sup>2</sup> /s	D 445	5.7	6.8	8.6	11.2	14.6	19.4	24
Viscosity index	ISO 2909-81	114	108	98	100	95	96	98
Flash point COC °C	ISO 2592-94	210	214	222	230	240	252	252
Pour point	DIN ISO 3016	- 24	- 24	- 21	- 18	- 18	- 18	- 18
Copper corrosion	ASTM D 130	1b	1b	1b	1b	1b	1b	1b
Corrosion protection	ASTM D 665B	pass	pass	pass	pass	pass	pass	pass
VKA test	ASTM D 4172	0.37	0.32	0.29	0.27	0.27	0.26	0.26
Stick-Slip Ratio	CM	0.80	0.78	0.78	0.78	0.78	0.78	0.78

The information in this technical data sheet is based on general knowledge and application possibilities. STRUB + Co. AG is not liable for damage resulting from improper use of the products. The industry-standard measurement and production tolerances apply to the specified characteristic. Generally, no legal binding can be derived from these data. Our products are subject to continuous further development. Therefore, STRUB + Co. AG reserves the right to change all technical data in this data sheet at any time and without prior notice.

**Transport**

ADR/SDR

No dangerous goods

**Disposal**

LVA VeVA / EAK:

13 02 05

The information in this technical data sheet is based on general knowledge and application possibilities. STRUB + Co. AG is not liable for damage resulting from improper use of the products. The industry-standard measurement and production tolerances apply to the specified characteristic. Generally, no legal binding can be derived from these data. Our products are subject to continuous further development. Therefore, STRUB + Co. AG reserves the right to change all technical data in this data sheet at any time and without prior notice.