

STRUB Vulcolube HLP

Multipurpose industrial and hydraulic oil



Description

STRUB Vulcolube HLP are for hydraulic systems in industry, construction, transport and agriculture.

Application

Hydraulic oil for practically all hydraulic systems as well as lubricating oil for plain and roller bearings, machine tools, compressors, vacuum pumps, gearboxes, circulation systems, for control and regulating devices and many other applications. The choice of this oil type and the optimum viscosity is based on the respective designer's specification. STRUB Vulcolube HLP 2, 5, 10, 15 can also be used as spindle oils.

Features and advantages

- excellent filterability
- excellent wear protection of the pumps
- excellent pressure absorption and lubricating effect
- excellent aging, temperature and oxidation resistance
- excellent demulsifying properties
- very good foaming behavior
- very good corrosion protection properties
- very good hydrolysis resistance
- very good sealing compatibility
- skin compatible, low odor
- high natural viscosity index

Specifications

DIN 51524 part 2, hydraulic oil HLP, ISO 6743-4 HM,
AFNOR NF E 48-603: HM (Antiwear Hydraulikoel), AFNOR NF E 48-690, NF E 48-691: Filterability, CETOP RP 124H and Pall Filterability
Cincinnati Milacron P-68, 69, 70, Denison HF-0, HF-1 HF-2 (ISO VG 32, 46, 68), Eaton Vickers I-286-S: Pump V104C Test, Eaton Vickers M-2950-S: Pump 35VQ25 Test
Bosch Rexroth RDE 90235

Release:

Putzmeister concrete pumps WN022521 (HLP 46)
Battenfeld (ISO VG 46)

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.

Technical data

ISO	Density at 15°C	Viscosity at:						Visc. Index	Flash-point	Pour-point	Art. No.
		40°C	50°C	50°C	100°C	0°C	20°C				
		mm ² /s	mm ² /s	°E	mm ² /s	mm ² /s	mm ² /s				
2	0,800	2.2	1.8	1.10	-	6	3.2	-	100	- 50	30580
3	0,805	3.2	2.6	1.17	-	9	4.8	-	100	- 45	30329
5	0,833	5	4.0	1.30	1.74	17	8.4	120	120	- 39	30716
10	0,850	10	7.5	1.6	2.7	49	19	110	160	- 36	30480
15	0,855	15	10.8	1.9	3.5	93	33	110	170	- 33	30994
22	0,862	22	15	2.3	4.3	170	52	105	185	- 33	30330
32	0,870	32	21	3.0	5.3	310	83	105	205	- 33	30331
46	0,876	46	30	4.1	6.8	562	132	102	220	- 30	30328
68	0,880	68	43	5.7	8.65	1024	214	98	224	- 30	30332
100	0,888	100	61	7.9	11.2	1758	337	97	234	- 27	30333
150	0,890	150	89	11.4	14.6	3132	545	96	250	- 24	30334
220	0,895	220	127	16.4	18.7	5416	860	95	260	- 21	30582
320	0,898	320	180	23.7	24	9085	1333	95	270	- 18	30583
460	0,900	460	252	31.6	30.7	14824	2030	96	290	- 15	30584

More data for STRUB Vulcolube HLP 46

Filterability (AFNOR and CETOP)	fulfills
FZG DIN 51354	12
Vickers, ASTM D-2882	fulfills
Air separating capacity DIN 51381	5.8 min (50°C)
Demulsifying capacity DIN 51599	10 min
Steel corrosion protection DIN 51585 A+B	fulfills
Neutralization number DIN 51558-1 (mg KOH/g)	0.54
Copper corrosion DIN 51759-1	1a
Foaming behavior ASTM D892	0/0; 0/0; 0/0
Behavior towards gasket material SRE-NBR1 DIN 53538, Procedure DIN 53521 in connection with DIN 53505	Weight change 4.58%, Shore hardness change -1
Oxidation stability/aging resistance DIN 51587, increase of NZ after 1000h	0.93

Transport

ADR/SDR No dangerous goods

Disposal

LVA VeVA / EAK: 13 01 10

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