



STRUB Vulcolube Synt HEES

Biodegradable hydraulic oils



Description

Synthetic, based on saturated esters biodegradable shear stable high performance hydraulic oils. STRUB Vulcolube Synt HEES has an extremely favorable viscosity-temperature behavior, is equally resistant to high temperatures and low temperatures and has excellent oxidation stability. Specially selected additives prevent spontaneous oil aging and the associated deposits and gumming, even at high operating temperatures. The raw materials and the additives are environmentally compatible and, in the event of leakage, are largely degraded by microorganisms present in the soil or water.

STRUB Vulcolube Synt HEES does not attack seals and machine paints, has no tendency to foam. STRUB Vulcolube Synt HEES exhibits very good wear and corrosion protection.

Application

For almost all hydraulic systems, especially where environmental compatibility is required. For hydraulic systems of construction machinery, vehicles, machine tools, presses and other equipment such as hydraulic engineering, fresh water extraction, dredgers, water boats, locks, freight elevators, food industry, cold storage, forestry, etc.

Please observe the manufacturer's instructions when switching from mineral oil to STRUB Vulcolube Synt HEES.

Features and advantages

- · extended oil life
- biodegradable
- excellent oxidation stability (High Performance Fluid)
- excellent cold flow behavior / very low pour point
- excellent high pressure properties
- ideal viscosity-temperature behavior, shear stable

Specifications

ISO 15'380 HEES, VDMA 24568 HEES VDMA 24568 ASTM D 943 (Dry TOST test) > 2000 h HPDSC, 220°C > 50 min.

The information in this technical data sheet is based on general knowledge and possible applications. Strub + Co. AG is not liable for damage resulting from improper use of the products. The measurement and production tolerances customary in the industry apply to the characteristic data given. In general, no legal binding force 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.

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Technical data

ISO class		15	22	32	46	68
Item no.		33367	32273	32419	30218	32594
Color, appearance		Yellowish	Yellowish	Yellowish	yellow	yellow
Density at 20°C	g/cm ³	0.93	0.925	0.924	0.922	0.940
Viscosity at 0°C	mm/s ²	84.4	142	244	360	615
Viscosity at 40°C	mm/s ²	15	22.5	32.5	45.6	68
Viscosity at 100°C	mm/s ²	3.74	5.0	6.35	8.4	11.1
VI (viscosity index)		140	156	150	162	155
lodine number		7	< 6	< 5	< 5	< 5
Pourpoint	°C	- 51	- 51	- 51	- 42	- 42
Flash point i.o.t.	°C	190	216	244	240	240
Biodegradability	OECD 301 B	> 70 %	> 70 %	> 70 %	> 60 %	> 60 %
	CEC-L-33-A-93	-	-	-	> 80 %	> 80 %

Transport

ADR/SDR No dangerous goods

Disposal

LVA VeVA / EAK: 13 0 112

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