

# STRUB Vulcogear Synt EP

(polyglycol)

Fully synthetic ultrahigh-pressure gear oils for industrial plants



## Description

STRUB Vulcogear Synt EP are synthetic industrial gear oils based on polyalkylene glycols.

## Application

For the lubrication of worm, spur, bevel and planetary gears exposed to high pressure and high temperature loads. Can be used in industrial plants, working machines and rail vehicles.

For plain and roller bearings in hoists, calenders, rolling mills, paper machines, crushers, kneaders, conveyors, etc.

## Features and advantages

- very favorable viscosity-temperature behavior (high viscosity index). Very good high and low temperature properties, continuous operating temperature up to 200°C, short term up to 250°C no significant coking or tendency to sludge and resinification
- High oxidation stability. High compressive strength and excellent protection against wear.
- lower coefficient of friction compared to mineral oil. This results in lower friction losses and lower energy consumption. In comparison with a mineral oil of the same viscosity, the operating temperature is lowered by 10 to 25°C.
- no tendency to foam formation, very good air release properties
- not miscible with mineral oil. Miscibility and compatibility with other synthetic gear oils must be clarified on a case-by-case basis.
- Seal materials such as A C M, Viton (F K M), PTFE and silicone rubber (M F Q) are resistant to STRUB Vulcogear Synt EP. Compatibility with other elastomers must be checked on a case-by-case basis
- STRUB Vulcogear Synt EP offer: Extended oil change intervals, more safety, fewer malfunctions during operation, energy savings

## Technical data

ISO class	32	46	68	100	150	220	320	460	680
Article No.	33321	33322	33323	30290	30617	30577	31020	30764	32417
Density at 20°C	1.02	1.026	1.032	1.003	0.995	0.980	0.980	0.982	0.984
Viscosity at 0°C cSt	190	282	419	800	1400	2067	3500	5370	7990
Viscosity at 40°C cSt	32	46	68	110	150	220	320	460	700
Viscosity at 100°C cSt	7.1	9.7	13.8	20	23	31	41	52.8	78.2
Viscosity index	194	203	212	210	190	184	182	180	194
Flash point °C	220	240	240	240	240	230	240	240	242
Pour point °C	-54	-48	- 51	- 45	- 42	- 39	- 36	- 33	-30
FZG test DIN 51354									
A/8, 3/90 Damage force level	> 12	> 12	> 12	> 12	> 12	> 12	> 12	> 12	> 12
A16, 6/90 Damage force level	> 12	> 12	> 12	> 12	> 12	> 12	> 12	> 12	> 12

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.

**Classification**

51517

PG (Performance capability) (CLPPG)

**Transport**

ADR/SDR

No dangerous goods

**Disposal**

LVA VeVA / EAK:

13 02 06

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