



Product Specifications

Laboratory Data:

Viscosity		
Stabinger (ASTM D7042)	Temperature	ν (mm ² /s)
	0 °C [32 °F]	260
	20 °C [68 °F]	70
	40 °C [104 °F]	30
Viscosity-Index (ISO)		130
Viscosity-Temperature-Behaviour		good

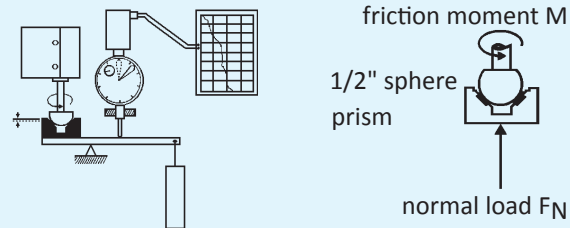
Color	colorless
Permanent Low Temperature 72 hrs fluid	-45 °C [-49 °F]
Application Temperature	-40 °C to +250 °C [-40 °F to +482 °F]
Density 20 °C [68 °F] (DIN)	1.9 g/cm ³
Surface Tension	21 mN/m
Evaporation Rate 24 hrs/105 °C [221 °F]	0.5 % low
Wetting	brass: good steel: good
Drop Stability	POM: good
Durability	excellent
Compatibility with Plastics	very good
Composition	perfluorinated polyether

Comments:

Silicone free speciality oil with excellent ageing behaviour. Good compatibility with plastics and elastomers. The oil repels water and is suitable under radiation. It is not flammable and has good di-electric properties.

Tribological Data:

Test System: sphere on prism (ISO 7148/2)

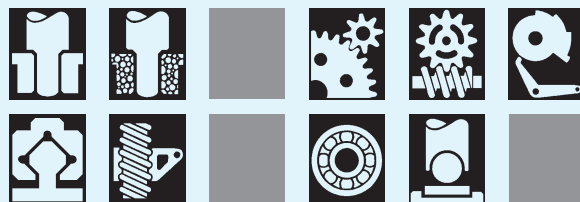


Friction Behaviour					
dependent on sliding speed					
v (mm/s)	f	friction coefficient f			
		0.1	0.2	0.3	0.4
0	0.10	<div></div>			
20	0.02	<div></div>			
50	0.01	<div></div>			
200	0.01	<div></div>			
materials:		steel/POM, load 3 N, 25 °C [77 °F]			
lubricant:		Fluorstatic 70			

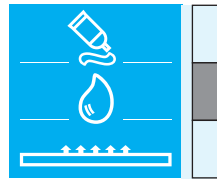
Wear Behaviour comparison: dry and lubricated with Fluostatic 70					
materials	wear (in mm)				
	0.01	0.03	0.1	0.3	1.0
St/POM: TS4500 dry					
St/steel: TS4500 dry					
test parameters: load 30 N, distance 10 km, 25 °C [77 °F], ν =28.1 mm/s					

Application:

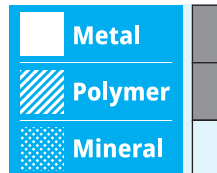
Precision metal and plastic gears, ball bearings, meteorological and optical instruments, aviation instruments, MIL-technic.



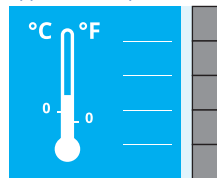
Product



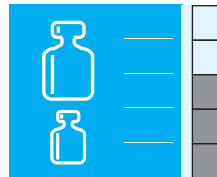
Bearing material



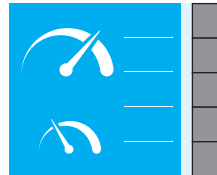
Application temperature



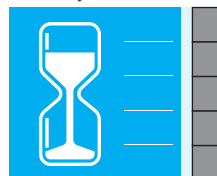
Bearing load



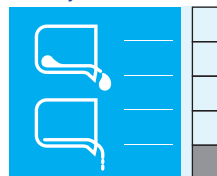
Sliding speed



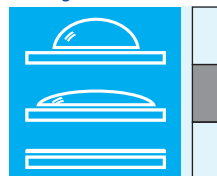
Durability



Viscosity



Wetting



P170c