

Product Specifications

Laboratory Data:

Kinematic Viscosity (DIN)						
	Temperature	$V (mm^2/s)$				
M ₂	0°C [32°F]	1700				
	20°C [68°F]	1000				
	40°C[104°F]	650				
ary viscometry	Viscosity Index (ISO)	420				
scosity-Te	mperature-Behavior	very good				

Permanent Low Temperature -50°C (72 hrs without crystallization) [-58°F]

Application Temperature -45°C to +120°C

 $[-49^{\circ}F \text{ to } +248^{\circ}F]$

 0.98 g/cm^3 **Density** 20°C [68°F] (DIN) **Surface Tension** 22 mN/m Color (ASTM) blue **Evaporation Rate** -0.5 % (16 hrs/105°C [221°F]) low Wetting very good **Durability** very good

Compatibility with Plastics

compatible PA11, PA12, PA6-3T,

> PA66, PBTP, PC, POM, PPO, TPU

ABS, SB satisfactory

incompatible ASA, POM (CL) **Chemical Name** Frigopolysiloxane-

alcohol

Comments:

Plastic Oil K4563 has been developed particulary for applications in the automotive and aviation field. It fulfills the requirement to withstand 48 hours low temperature storage at -40°C [-40°F]. The oil exhibits strong noise damping characteristics between -40°C and 120°C [-40°F and 248°F], due to its excellent viscosity-temperature-behavior. Compatible with nearly all plastics. Unaffected by humidity. Applicable under high pressure loads. Good wetting characteristics. Epilamisation with necessary, when applying large quantitites of oil.

Experiences: Basic oil in over 70.000.000 automotive instruments. Long-term stability (over 10 years) is well established.

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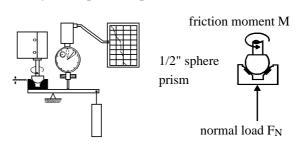
Plastic Oil K4563/1000

Article No.: TS3201

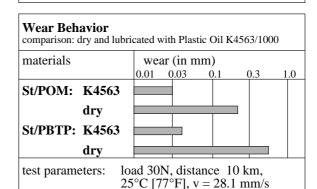
Precision Oil for Automotive and Aviation Instruments

Tribological Data:

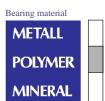
Test system: sphere on prism (ISO 7148/2)



Friction Behavior dependent on sliding speed								
v (mm/s)	f	frict	friction coefficient f					
			0.1	0.2	0.3	0.4		
0	0.05							
20	0.02							
50	0.02							
200	0.02							
materials:	steel/POM, load 3N, 25°C [77°F]							
lubricant:	Plastic Oil K4563/1000							

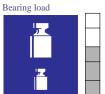




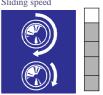


Application temperature

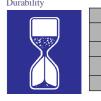




Sliding speed



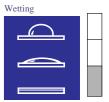
Durability











Application:

Plastic bearings in automotive and aviation instruments, instruments under difficult environmental conditions, meters and controls in coldstorage rooms, meteorological instruments, offshore applications.

Speedometers, tachometers, automotive clocks, timers, meters, clocks.























