

Product Specifications

Laboratory Data:

	Temperature	$V (mm^2/s)$	
M ₂	0°C [32°F]	160	
	20°C [68°F]	100	
	40°C[104°F]	70	
ary viscometry	Viscosity Index (ISO)	420	

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

Application Temperature -45°C to +120°C [-49°F to +248°F]

 0.97 g/cm^3 **Density** 20°C [68°F] (DIN) **Surface Tension** 22 mN/m Color (ASTM) colorless **Evaporation Rate** -0.1 % (16 hrs/105°C [221°F]) low very good Wetting

Compatibility with Plastics

compatible LCP, PA66, PBTP,

PC, POM, PPO, SB

satisfactory **ABS**

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

alcohol

very good

Comments:

Durability

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 nearly all plastics. Unaffected by humidity. Applicable under high pressure loads. Good wetting characteristics. Epilamisation with Antispread 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.

P084

Plastic Oil K4563/100

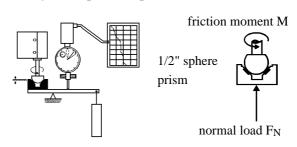
Article No.: TS3010

Product

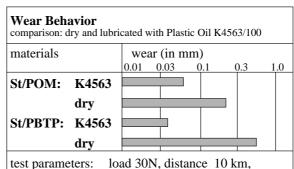
Precision Oil for Automotive and Aviation Instruments

Tribological Data:

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



Friction Behavior dependent on sliding speed								
v (mm/s)	f		friction coefficient f					
		0	.1	0.2	0.3	0.4		
0	0.11							
20	0.01							
50	0.01							
200	0.01	b						
materials:	steel/POM, load 3N, 25°C [77°F]							
lubricant:	Plastic Oil K4563/100							





Application:

Plastic

applications.

timers, meters, clocks.



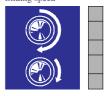


Application temperature

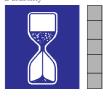




Sliding speed

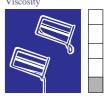


Durability

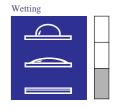


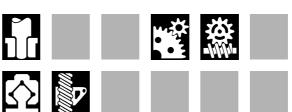
Viscosity

aviation









bearings in automotive and

instruments, instruments under difficult environ-

mental conditions, meters and controls in cold-

storage rooms, meteorological instruments, offshore

Speedometers, tachometers, automotive clocks,

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