

Plastic Oil K 4563/600 red

Article No. TS3104

Precision Oil for Automotive and Aviation Instruments

Product Specifications

Laboratory Data:

Viscosity							
Stabinger (ASTM D7042)	Temperature	v (mm²/s)					
	0 °C [32 °F]	950					
	20 °C [68 °F]	600					
	40 °C [104 °F]	400					
Viscosity-Index	420						
Viscosity-Tempe	excellent						

Color red -50 °C **Permanent Low Temperature** 72 hrs fluid [-58 °F]

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

Density 20 °C [68 °F] (DIN) 0.97 g/cm³ **Surface Tension** 22 mN/m **Evaporation Rate** 1.0 % 24 hrs/105 °C [221 °F] low

Wetting very good **Durability** very good

Compatibility with Plastics

PA11, PA12, PA6-3T, compatible

PA66, PBT, PC, POM, PPO, TPU

satisfactory ABS. SB ASA, POM (CL) incompatible frigopolysiloxane-Composition

Comments:

Plastic Oil K 4563 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-behaviour. Compatible with nearly all plastics. Unaffected by humidity. Applicable under high pressure loads. Good wetting characteristics. Epilamisation with Antispread necessary, when applying large quantities of oil.

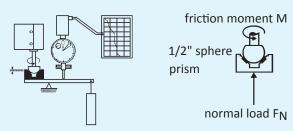
Experiences: Basic oil in over 70,000,000 automotive instruments. Long-term stability (over 10 years) is well established.

P053d

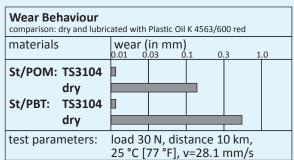
Telefon: +49 (0) 7451 5386-0 info@tillwich-stehr.com www.tillwich-stehr.com

Tribological Data:

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



Friction Behaviour dependent on sliding speed								
v (mm/s)	f	friction coefficient f						
0	0.07							
20	0.03							
50	0.03							
200	0.04							
materials: steel/POM, load 3 N, 25 °C [77 °F] lubricant: Plastic Oil K 4563/600 red						77 °F]		



Plastic bearings in automotive and aviation

instruments, instruments under difficult environ-

mental conditions, meters and controls in cold-

storage rooms, meteorological instruments, offshore

Speedometers, tachometers, automotive clocks,

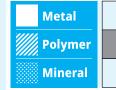
Application:

applications.

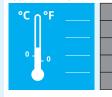
timers, meters, clocks.

Product

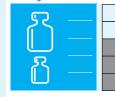
Bearing material



Application temperature



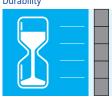
Bearing load



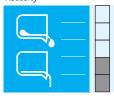
Sliding speed

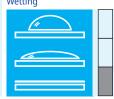


Durability



Viscosity





All information reflects our best knowledge. No responsibility is taken for printed data. Technical and chemical changes may occur without notice. We cannot be held liable for any use or application.