



Product Specifications

Laboratory Data:

Viscosity		
Stabinger (ASTM D7042)	Temperature	ν (mm ² /s)
	0 °C [32 °F]	2600
	20 °C [68 °F]	600
	40 °C [104 °F]	200
Viscosity-Index (ISO)		140
Viscosity-Temperature-Behaviour		good

Color	light yellow
Permanent Low Temperature 72 hrs fluid	-25 °C [-13 °F]
Application Temperature	-20 °C to +80 °C [-4 °F to +176 °F]
Density 20 °C [68 °F] (DIN)	0.87 g/cm ³
Surface Tension	31 mN/m
Evaporation Rate 24 hrs/105 °C [221 °F]	0.04 % very low
Drop Stability /Wetting	good
Durability	good
Corrosion Resistance	brass: very good steel: very good
Compatibility with Plastics compatible	ABS, ASA, ABS/PC, PA12, PA66, PBT, POM
satisfactory	PC, PEBA
Composition	partially synthetic oil on base of esters and hydrocarbons with additives

Comments:

Partially synthetic precision oil on base of synthetic ester oils, natural hydrocarbons and polyalpha-olefines. Precision Oil 12767 is equipped with an additive package for high ageing and oxidation stability as well as corrosion resistance, which ensures its application in the field of horology and precision mechanics.

P316c

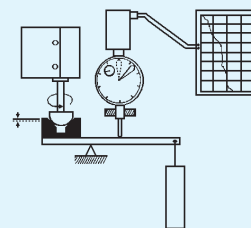
Precision Oil 12767

Article No. TK2730

Precision Oil for Metals and Plastics

Tribological Data:

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



friction moment M
1/2" sphere
prism
normal load F_N

Friction Behaviour

dependent on sliding speed

ν (mm/s)	f	friction coefficient f			
		0.1	0.2	0.3	0.4
0	0.13				
20	0.05				
50	0.05				
200	0.07				

materials: steel/POM, load 3 N, 25 °C [77 °F]
lubricant: Precision Oil 12767

Wear Behaviour

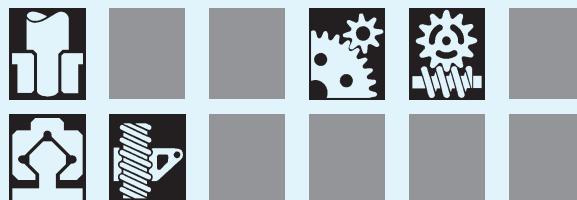
comparison: dry and lubricated with Precision Oil 12767

materials	wear (in mm)				
	0.01	0.03	0.1	0.3	1.0
St/POM: TK2730					
dry					
St/steel: TK2730					
dry					

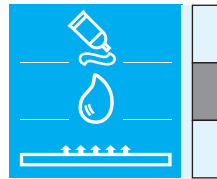
test parameters: load 30 N, distance 10 km,
25 °C [77 °F], ν =28.1 mm/s

Application:

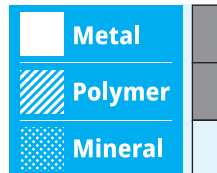
Precision oil for metallic sliding combinations in precision instruments. For radial bearings from 3 mm to 8 mm diameter (0.118 to 0.315 inches) in wall-clocks, pendulum-clocks, timers. For lubrication of gears, worm gears, linear guides, etc. For slow to medium sliding speeds.



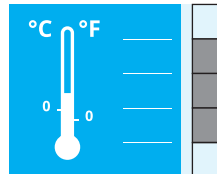
Product



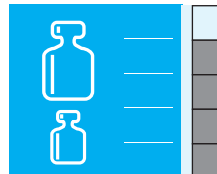
Bearing material



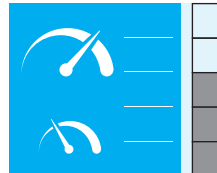
Application temperature



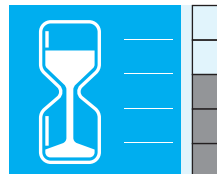
Bearing load



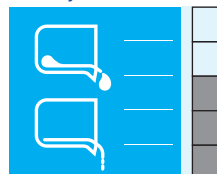
Sliding speed



Durability



Viscosity



Wetting

