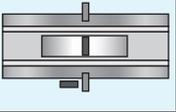


## Product Specifications

### Laboratory Data:

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

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

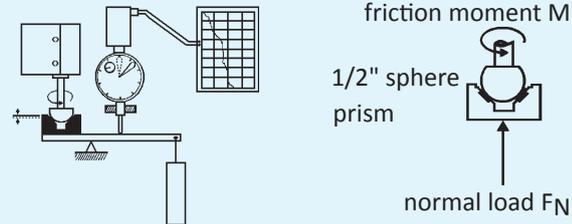
# Precision Oil 12767

Article No. TK2730

Precision Oil for Metals and Plastics

### Tribological Data:

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

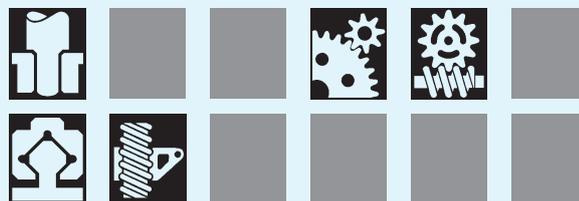


Friction Behaviour				
dependent on sliding speed				
$\nu$ (mm/s)	f	friction coefficient f		
		0.1	0.2	0.3
0	0.13	[Bar chart showing f values]		
20	0.05	[Bar chart showing f values]		
50	0.05	[Bar chart showing f values]		
200	0.07	[Bar chart showing f values]		
materials:		steel/POM, load 3 N, 25 °C [77 °F]		
lubricant:		Precision Oil 12767		

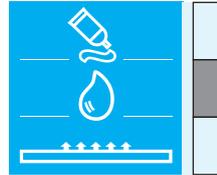
Wear Behaviour					
comparison: dry and lubricated with Precision Oil 12767					
materials	wear (in mm)				
	0.01	0.03	0.1	0.3	1.0
St/POM: TK2730	[Bar chart showing wear values]				
dry	[Bar chart showing wear values]				
St/steel: TK2730	[Bar chart showing wear values]				
dry	[Bar chart showing wear values]				
test parameters:		load 30 N, distance 10 km, 25 °C [77 °F], $\nu=28.1$ mm/s			

### Application:

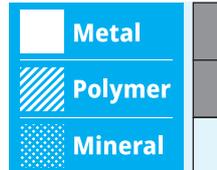
Precision oil for metallic sliding combinations in precision instruments. For radial bearings from 3 mm to 8 mm diameter (0.118 to 0.315 inches) in wall-clocks, pendulum-clocks, timers. For lubrication of gears, worm gears, linear guides, etc. For slow to medium sliding speeds.



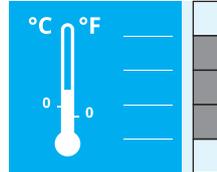
Product



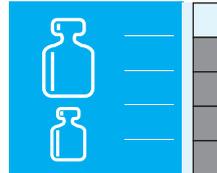
Bearing material



Application temperature



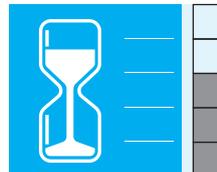
Bearing load



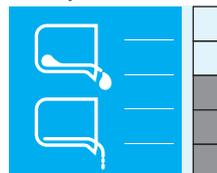
Sliding speed



Durability



Viscosity



Wetting

