



## Product Specifications

### Laboratory Data:

Viscosity		
Stabinger (ASTM D7042)	Temperature	$\nu$ (mm <sup>2</sup> /s)
	0 °C [32 °F]	1300
	20 °C [68 °F]	230
	40 °C [104 °F]	65
Viscosity-Index (ISO)		65
Viscosity-Temperature-Behaviour		satisfactory

<b>Color</b>	colorless
<b>Permanent Low Temperature</b> 72 hrs fluid	-15 °C [+5 °F]
<b>Application Temperature</b>	-10 °C to +60 °C [+14 °F to +140 °F]
<b>Density</b> 20 °C [68 °F] (DIN)	0.88 g/cm <sup>3</sup>
<b>Surface Tension</b>	31 mN/m
<b>Evaporation Rate</b> 24 hrs/105 °C [221 °F]	0.5 % low
<b>Drop Stability</b>	good
<b>Durability</b>	good
<b>Corrosion Resistance</b>	brass: good steel: good
<b>Composition</b>	mineral oil in DAB quality with additives

### Comments:

L 247 stab. is a precision oil for meters and instruments, based on highly refined mineral oils plus stabilizers. All components of Precision Oil L 247 stab. are non-poisonous and admitted from the FDA - Federal Drug Administration - as ingredients in lubricants that may come into contact with food.

The oil may be used to lubricate plastic materials; if applied with critical polymers please test their compatibility or request results.

P306b

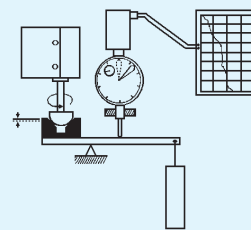
# Precision Oil L 247 stab.

Article No. TK1370

Precision Lubricant for Metals and Many Plastics

### Tribological Data:

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



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

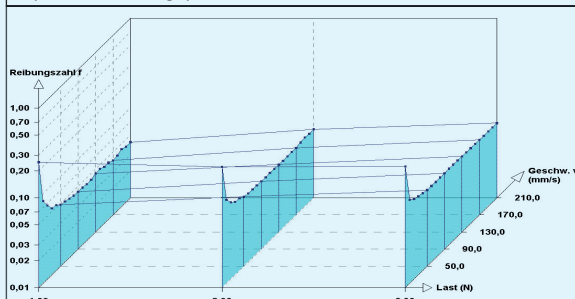
**Friction Behaviour**  
dependent on sliding speed

$\nu$ (mm/s)	f	friction coefficient f			
		0.1	0.2	0.3	0.4
0	0.22				
20	0.07				
50	0.06				
200	0.06				

materials: steel/brass, load 3 N, 25 °C [77 °F]  
lubricant: Precision Oil L 247 stab.

### 3D Friction Graph

dependent on sliding speed and load

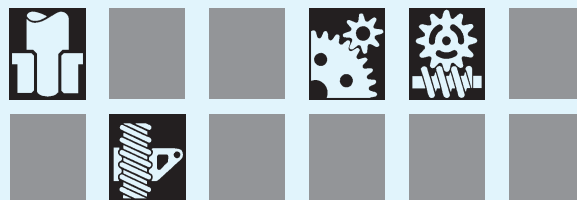


test parameters: steel/brass, load 1, 3 and 6 N  
 $\nu$  = 0 - 210 mm/s, 25 °C [77 °F]

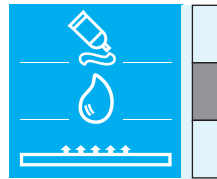
### Application:

For lubrication of metal/metal precision bearings (steel, aluminum, non-ferrous heavy metals, etc.), such as sliding and porous bearings or dented wheels in meters, recording devices, synchronous motors and instruments.

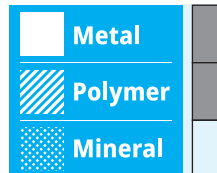
For spur gearings, worm drives, linear guides, etc.



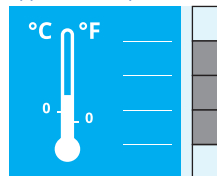
### Product



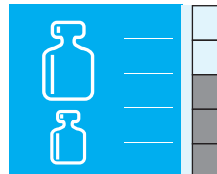
### Bearing material



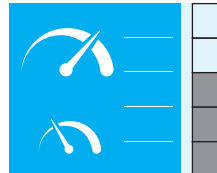
### Application temperature



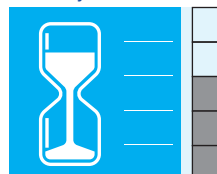
### Bearing load



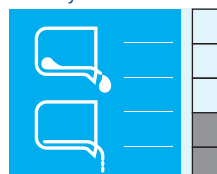
### Sliding speed



### Durability



### Viscosity



### Wetting

