



## Product Specifications

### Laboratory Data:

Viscosity		
Stabinger (ASTM D7042)	Temperature	$\nu$ (mm <sup>2</sup> /s)
	0 °C [32 °F]	240
	20 °C [68 °F]	70
	40 °C [104 °F]	30
Viscosity-Index (ISO)		130
Viscosity-Temperature-Behaviour		good

<b>Color</b>	slightly yellow, clear
<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)	0.94 g/cm <sup>3</sup>
<b>Surface Tension</b>	28 mN/m
<b>Evaporation Rate</b> 24 hrs/105 °C [221 °F]	0.1 % very low
<b>Drop Stability</b>	good
<b>Durability</b>	good
<b>Corrosion Resistance</b>	brass: very good steel: very good
<b>Composition</b>	synthetic oil on ester base with hydrocarbons

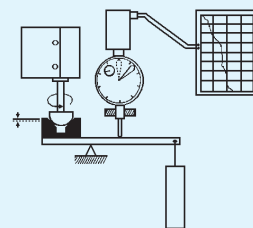
### Comments:

Silber B is a synthetic watch and instrument oil based on esters and with a small amount of synthetic hydrocarbons. Its excellent pressure absorption capacity and the high surface tension ensure for-life lubrication of highly loaded sliding bearings. Suitable for high and low velocities. Low inner friction due to low viscosity. Compatibility tests are necessary if used with plastics!

P035g

### 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	0.12				
20	0.09				
50	0.07				
200	0.06				

materials: steel/ruby, load 3 N, 25 °C [77 °F]  
lubricant: Silber B

#### Wear Behaviour

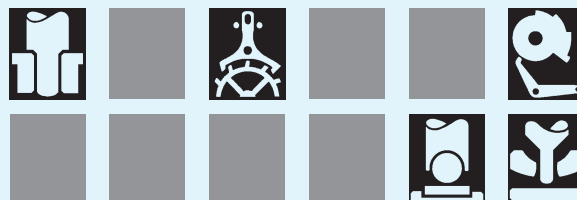
comparison: dry and lubricated with Silber B

materials	wear (in mm)				
	0.01	0.03	0.1	0.3	1.0
St/ruby: TK2300 dry					
St/steel: TK2300 dry					

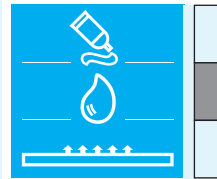
test parameters: load 30 N, distance 10 km,  
25 °C [77 °F],  $\nu$ =28.1 mm/s

### Application:

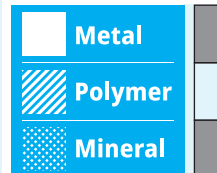
Lubrication of highly loaded, low or high-speed steel and jewel bearings up to pocket-watch calibers.



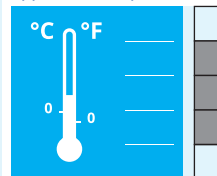
#### Product



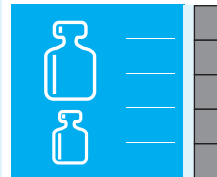
#### Bearing material



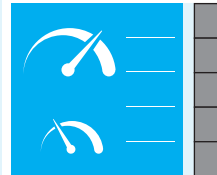
#### Application temperature



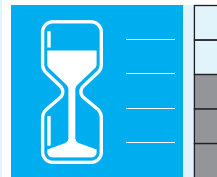
#### Bearing load



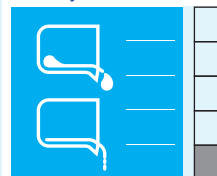
#### Sliding speed



#### Durability



#### Viscosity



#### Wetting

