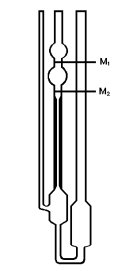


Product Specifications

Laboratory Data:

Kinematic Viscosity (DIN)		
 capillary viscometry	Temperature	ν (mm ² /s)
	0°C [32°F]	450
	20°C [68°F] 40°C [104°F]	125 50
	Viscosity Index (ISO)	130
Viscosity-Temperature-Behavior		good

Permanent Low Temperature -40 °C
(72 hrs without crystallization) [-40°F]

Application Temperature -35°C to +90°C
[-31°F to +194°F]

Density 20°C [68°F] (DIN) 0.95 g/cm³

Surface Tension 26 mN/m

Color slightly yellow

Evaporation Rate -0.1 %
(24 hrs/105°C [221°F]) very low

Drop Stability very good

Durability very good

Corrosion Resistance brass: very good
steel: very good

Chemical Name fully synthetic oils
on ester base with
additives and wetting
modifier

Comments:

Very good friction behavior even at high loads. Excellent wear reducing properties. Very good adhesion of the oil on the surface: special wetting modifiers prevent the oil from spreading. Point lubrication is possible. No corrosion and oxidation of metallic materials. Very good stability against aging even in contact with non-ferrous heavy metals. For-life lubrication is possible. Lubricity very good at both high and low temperatures. Do not use for lubrication of plastic materials.

P173b

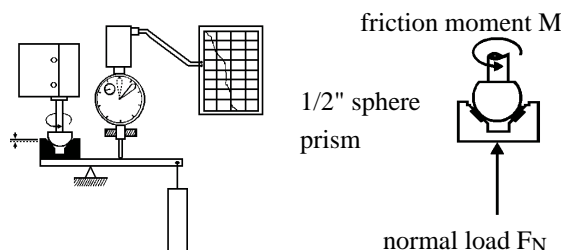
LGN Watch Oil

Article No.: TS5500

Synthetic High Precision Watch Oil

Tribological Data:

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

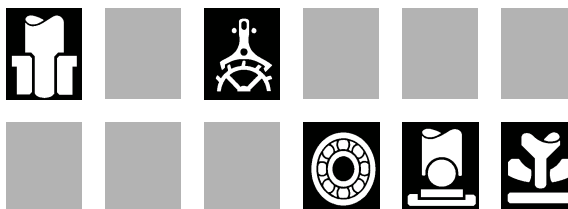


Friction Behavior		
dependent on sliding speed		
ν (mm/s)	f	friction coefficient f
0	0.13	0.1 0.2 0.3 0.4
20	0.04	
50	0.01	
200	0.01	
materials: steel/brass, load 3N, 25°C [77°F]		
lubricant: LGN Watch Oil		

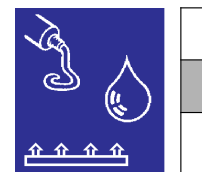
Wear Behavior					
comparison: dry and lubricated with LGN Watch Oil					
materials	wear (in mm)				
	0.01	0.03	0.1	0.3	1.0
St/bs: lubricated	█				
dry	█	█	█	█	█
St/st: lubricated	█				
dry	█	█	█	█	█
test parameters: load 30N, distance 10 km, 25°C [77°F], $\nu = 28.1$ mm/s					

Application:

For precision bearings out of jewels and metals (e. g. ruby/steel, sapphire/steel, brass/steel, steel/steel, etc.). in watches, alarm clocks, clock movements. For all radial and axial bearings, jewel bearings, pallet-stones, pivots, escapements, miniature ball bearings.



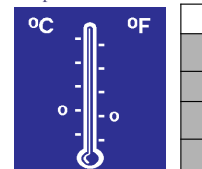
Product



Bearing material



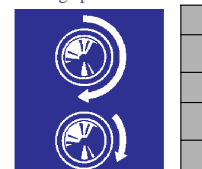
Application temperature



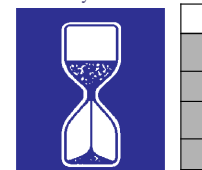
Bearing load



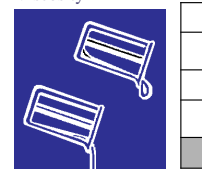
Sliding speed



Durability



Viscosity



Wetting

