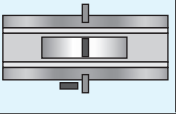


Product Specifications

Laboratory Data:

Viscosity		
Stabinger (ASTM D7042)	Temperature	ν (mm ² /s)
	0 °C [32 °F]	450
	20 °C [68 °F]	125
	40 °C [104 °F]	50
Viscosity-Index (ISO)		130
Viscosity-Temperature-Behaviour		good

Color	slightly yellow
Permanent Low Temperature 72 hrs fluid	-15 °C [+5 °F]
Application Temperature	-10 °C to +90 °C [+14 °F to +194 °F]
Density 20 °C [68 °F] (DIN)	0.95 g/cm ³
Surface Tension	26 mN/m
Evaporation Rate 24 hrs/105 °C [221 °F]	0.1 % very low
Drop Stability	very good
Durability	very good
Corrosion Resistance	brass: very good steel: very good
Composition	fully synthetic oils on ester base with additives and wetting modifier

Comments:

Very good friction behaviour even at high loads. Excellent wear reduction 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 ageing 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.

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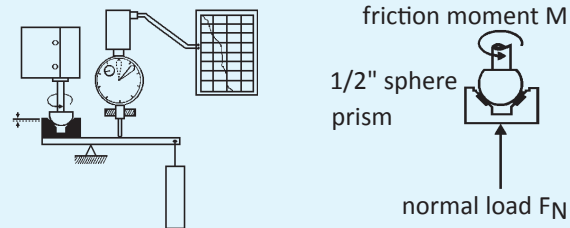
LGN Watch Oil

Article No. TS5500

Synthetic High Precision Watch Oil

Tribological Data:

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

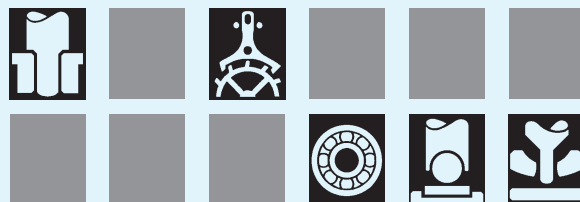


Friction Behaviour					
dependent on sliding speed					
ν (mm/s)	f	friction coefficient f			
		0.1	0.2	0.3	0.4
0	0.10	[Bar chart showing high friction]			
20	0.05	[Bar chart showing medium friction]			
50	0.03	[Bar chart showing low friction]			
200	0.01	[Bar chart showing very low friction]			
materials:		steel/brass, load 3 N, 25 °C [77 °F]			
lubricant:		LGN Watch Oil			

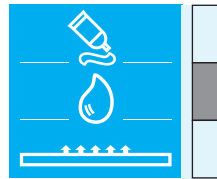
Wear Behaviour					
comparison: dry and lubricated with LGN Watch Oil					
materials	wear (in mm)				
		0.01	0.03	0.1	0.3
St/brass: TS5500	[Bar chart showing wear]				
dry	[Bar chart showing high wear]				
St/steel: TS5500	[Bar chart showing wear]				
dry	[Bar chart showing high wear]				
test parameters:		load 30 N, distance 10 km, 25 °C [77 °F], $\nu=28.1$ mm/s			

Application:

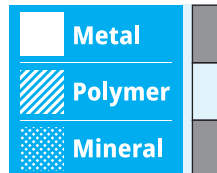
For precision bearings out of jewels and metals (e. g. ruby/steel, sapphire/steel, brass/steel, steel/steel, etc.) in watches, alarm clocks, clock movements. For all radial and axial bearings, jewel bearings, pallet-stones, pivots, escapements, miniature ball bearings.



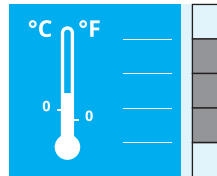
Product



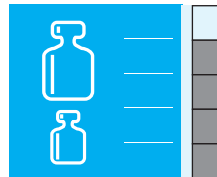
Bearing material



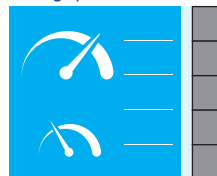
Application temperature



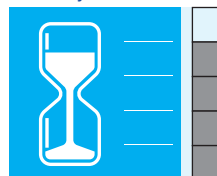
Bearing load



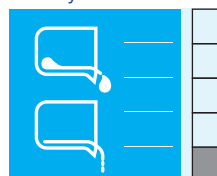
Sliding speed



Durability



Viscosity



Wetting

