Dr. Tillwich GmbH
Werner Stehr

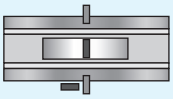
Emergency Clock Oil

Article No. TS5900

Special Oil to Make Resinous Bearings Working

Product Specifications

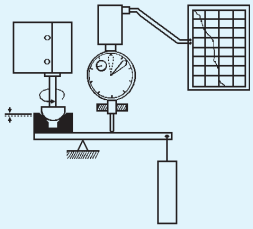
Laboratory Data:

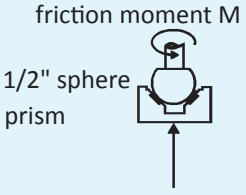
Viscosity		
Stabinger (ASTM D7042)	**Temperature**	**ν (mm²/s)**
	0 °C [32 °F]	36
	20 °C [68 °F]	15
	40 °C [104 °F]	7
Viscosity-Index (ISO)		190
Viscosity-Temperature-Behaviour		good

Color	red
Permanent Low Temperature 72 hrs fluid	-60 °C [-76 °F]
Application Temperature	-50 °C to +60 °C [-58 °F to +140 °F]
Density 20 °C [68 °F] (DIN)	0.93 g/cm³
Surface Tension	31 mN/m
Drop Stability	good
Durability	very good
Corrosion Resistance	brass: very good steel: very good
Composition	synthetic oil on ester base (free of silicones)

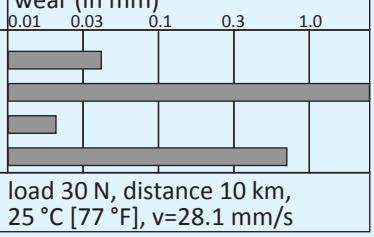
Tribological Data:

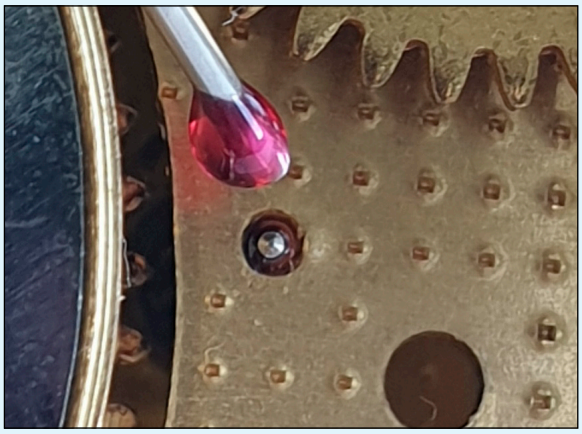
Test System: sphere on prism (ISO 7148/2)





Wear Behaviour
comparison: dry and lubricated with Emergency Cock Oil



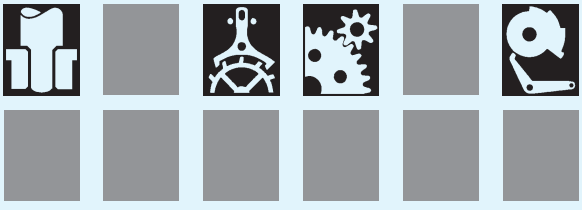


Application of Emergency Clock Oil onto a resinified bearing.

Application:

Special oil to make resinous bearings in clocks and other mechanics working. Suitable for brass/steel and steel/steel bearing pairings.

Drip twice the amount of Emergency Clock Oil used in conventional oiling onto the resinous bearing site. Leave on for 24 hours. After that, let the mechanism run several times. If necessary, repeat the process. Wipe off excess oil.



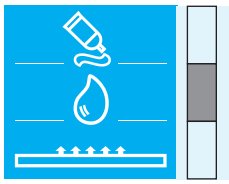
Remarks:

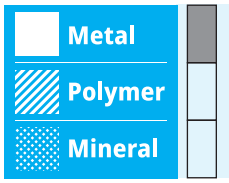
When an oil resinifies, it becomes thick and viscous. This process is caused by oxidation and degradation of the aging stabilizers. Normally, the only remedy is the meticulous removal and time-consuming cleaning of the bearing points and re-oiling with fresh oil. If this is not possible, Emergency Clock Oil will help. The service oil consists of a low-viscosity, fully synthetic base oil for watch and clock oils, which is equipped with three times the amount of aging inhibitors and anti-corrosion additives. It dissolves the resinous residues and stabilizes them anew. Normally, the movement will run for years again.

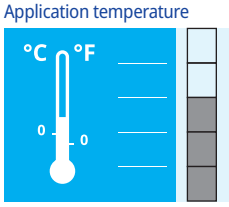
The Emergency Clock Oil can dissolve some plate varnishes.

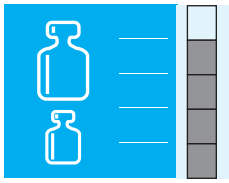
Not suitable for lubricating new movements!

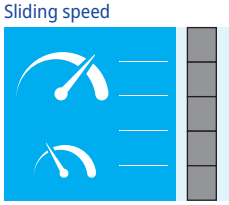
P385

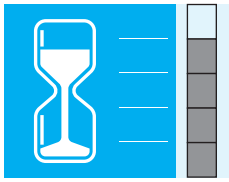
Product


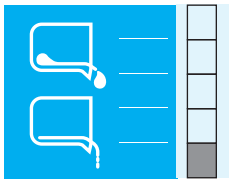
Bearing material


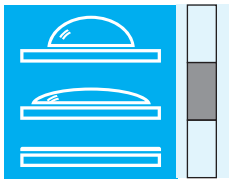
Application temperature


Bearing load


Sliding speed


Durability


Viscosity


Wetting


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