

Product Specifications

Laboratory Data:

Viscosity		
Stabinger (ASTM D7042)	Temperature	v (mm²/s)
	0 °C [32 °F] 20 °C [68 °F] 40 °C [104 °F]	600 140 50
Viscosity-Index (ISO)		110
Viscosity-Temperature-Behaviour good		

Color yellow -15 °C **Permanent Low Temperature** 72 hrs fluid [+5 °F]

Application Temperature -10 °C to +80 °C [+14 °F to +176 °F]

Density 20 °C [68 °F] (DIN) 0.91 g/cm³ **Surface Tension** 31 mN/m **Evaporation Rate** 0.4 % 24 hrs/105 °C [221 °F] very low

Drop Stability good **Durability** good

Corrosion Resistance brass: very good

steel: very good

Compatibility with Plastics on request

Composition partially synthetic oil on base of esters and

hydrocarbons with additives

Comments:

Murber Steige 26

D-72160 Horb (Ahldorf)

Partially synthetic clock and instrument oil on base of different synthetic ester oils, natural hydrocarbons and polyalphaolefines. Type 3-5 is equipped with an additive package for high ageing and oxidation stability as well as corrosion resistance, which ensures its application in the field of horology.

The partially synthetic clock and instrument oil Type 3-5 replaces the ancient classical watch and instrument oils Type 3, 4 and 5.

Dr. Tillwich GmbH Werner Stehr info@tillwich-stehr.com

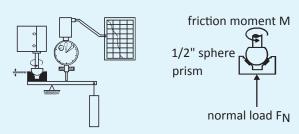
Type 3-5

Article No. TK2235

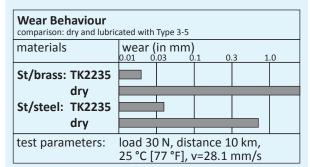
Partially Synthetic Clock and Instrument Oil

Tribological Data:

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



Friction Behaviour dependent on sliding speed			
v (mm/s)	f	friction coefficient f	
0	0.17		
20	0.05		
50	0.03		
200	0.03		
materials lubricant		steel/brass, load 3 N, 25 °C [77 °F] Type 3-5	



Watch and instrument oil for metallic sliding

combinations in precision instruments. For springs

and pivot bearings from 1 to 5 mm diameter (0.04

to 0.20 inches) in alarm clocks, wall-clocks, domestic

Product



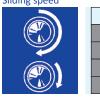




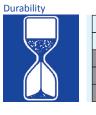




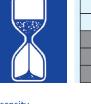




















P119b

Application:

clocks or switch-clocks.