Dr. Tillwich GmbH Werner Stehr

Product Specifications

Type 1-3 Article No.: TK2213 **Partially Synthetic Watch and Instrument Oil**

Laboratory Data:

Kinematic Viscosity (DIN)			
	Temperature	$V (mm^2/s)$	
	0°C [32°F]	340	
	20°C [68°F]	100	
	40°C[104°F]	40	
capillary viscometry	Viscosity Index (ISO)	150	
Viscosity-Te	emperature-Behavior	good	

Permanent Low Temperature -15 °C

(72 hrs without crystallization) **Application Temperature**

[5°F] -10°C to +80°C $[14^{\circ}F \text{ to } +176^{\circ}F]$

Density 20°C [68°F] (DIN)	0.21 g/cm ³
Surface Tension	30 mN/m
Color	yellow
Evaporation Rate	0.4 %
(24 hrs/105°C [221°F])	low
Drop Stability	good
Durability	good
Corrosion Resistance	brass: very good steel: very good

Compatibility with Plastics Chemical Name

Partially synthetic clock and instrument oil on base of

different synthetic ester oils, natural hydrocarbons

and polyalphaolefines. Type 1-3 is equipped with an

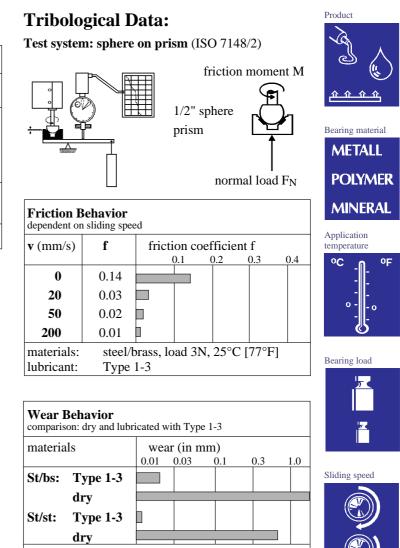
additive package for high ageing and oxidation

stability as well as corrosion resistance, which

ensures its application in the field of horology.

Comments:

on request partially synthetic oil on base of esters and hydrocarbons with additives

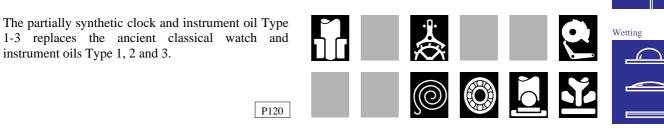


load 30N, distance 10 km, $25^{\circ}C$ [77°F], v = 28.1 mm/s

Application:

test parameters:

Watch and instrument oil for metallic sliding combinations and jewel bearings in pocket and wrist watches, small or alarm clocks. For pivot bearings up to 3 mm diameter (0.12 inches), teeth of escape-wheels, cornet-screws, mainsprings.



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instrument oils Type 1, 2 and 3.

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Durability

Viscosity