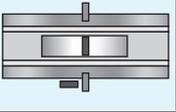


Product Specifications

Laboratory Data:

Viscosity		
Stabinger (ASTM D7042)	Temperature	ν (mm ² /s)
	0 °C [32 °F]	730
	20 °C [68 °F]	150
	40 °C [104 °F]	50
Viscosity-Index (ISO)		90
Viscosity-Temperature-Behaviour		satisfactory

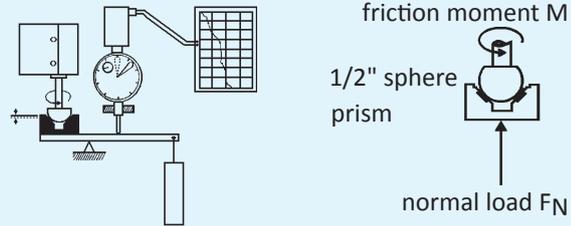
Color	colorless
Permanent Low Temperature 72 hrs fluid	-20 °C [-4 °F]
Application Temperature	-15 °C to +90 °C [+5 °F to +194 °F]
Density 20 °C [68 °F] (DIN)	0.90 g/cm ³
Surface Tension	32 mN/m
Evaporation Rate 24 hrs/105 °C [221 °F]	0.4 % very low
Drop Stability /Wetting	good
Durability	good
Composition	partially synthetic oil on base of esters and hydrocarbons with additives

Comments:

Partially synthetic precision oil for meters and instruments on base of synthetic ester oils, natural hydrocarbons and polyalphaolefines. R 34 K is equipped with an additive package for high ageing and oxidation stability as well as corrosion resistance, which ensures for-life lubrication. Due to its high pressure absorption capacity R 34 K may be used to lubricate miniature ball bearings.

Tribological Data:

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

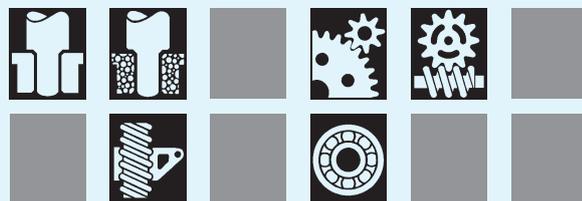


Friction Behaviour			friction coefficient f			
ν (mm/s)	f	dependent on sliding speed				
		0.1	0.2	0.3	0.4	
0	0.18	[Bar chart showing high friction]				
20	0.07	[Bar chart showing medium friction]				
50	0.05	[Bar chart showing low friction]				
200	0.07	[Bar chart showing low friction]				
materials:		steel/brass, load 3 N, 25 °C [77 °F]				
lubricant:		R 34 K				

Wear Behaviour		wear (in mm)				
comparison: dry and lubricated with R 34 K		0.01	0.03	0.1	0.3	1.0
materials						
St/brass: TK2500	dry	[Bar chart showing high wear]				
St/steel: TK2500	dry	[Bar chart showing high wear]				
test parameters:	load 30 N, distance 10 km, 25 °C [77 °F], $\nu=28.1$ mm/s					

Application:

R 34 K may be used for all metal/metal precision bearings (steel, aluminum, non-ferrous heavy metals, etc.), such as sliding and porous bearings in meters, recording devices, synchronous motors, clock movements and instruments.



Product

Bearing material

- Metal
- Polymer
- Mineral

Application temperature

Bearing load

Sliding speed

Durability

Viscosity

Wetting

P183c