



Product Specifications

Laboratory Data:

Viscosity		
Stabinger (ASTM D7042)	Temperature	ν (mm ² /s)
	0 °C [32 °F]	340
	20 °C [68 °F]	95
	40 °C [104 °F]	40
Viscosity-Index (ISO)		140
Viscosity-Temperature-Behaviour		good

Color	yellow
Permanent Low Temperature 72 hrs fluid	-15 °C [+5 °F]
Application Temperature	-10 °C to +120 °C [+14 °F to +248 °F]
Density 20 °C [68 °F] (DIN)	1.0 g/cm ³
Surface Tension	31 mN/m
Evaporation Rate 24 hrs/105 °C [221 °F]	0.1 % very low
Wetting	good
Durability	very good
Corrosion Resistance	brass: very good steel: very good
Compatibility with Plastics	on request
Composition	fully synthetic oil on ester base

Comments:

Very good friction behaviour at high loads and high sliding speeds. Excellent wear reducing properties. Superb stability against ageing even in contact with non-ferrous heavy metals. For-life lubrication is possible. Good wetting properties.

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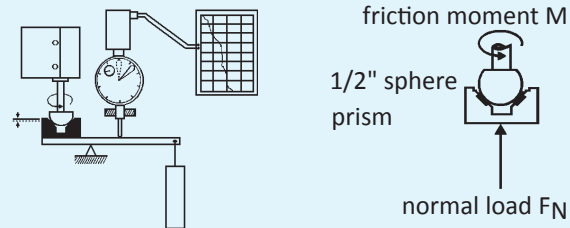
Gyrosynth 99214

Article No. TS5310

Fully Synthetic Precision Oil

Tribological Data:

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

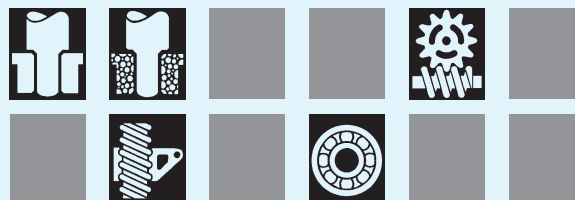


Friction Behaviour dependent on sliding speed		
ν (mm/s)	f	friction coefficient f
0	0.15	0.1
20	0.10	0.2
50	0.04	0.3
200	0.01	0.4
materials:		steel/brass, load 3 N, 25 °C [77 °F]
lubricant:		Gyrosynth 99214

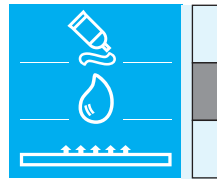
Wear Behaviour comparison: dry and lubricated with Gyrosynth 99214	
materials	wear (in mm)
St/brass: TS5310	0.01 0.03 0.1 0.3 1.0
dry	
St/steel: TS5310	
dry	
test parameters: load 30 N, distance 10 km, 25 °C [77 °F], ν =28.1 mm/s	

Application:

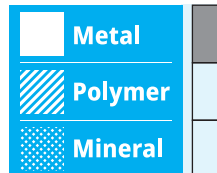
Precision lubricant for all kind of metal bearings (e. g. brass/steel, steel/steel, aluminum/steel, etc.). For precision ball bearings, sintered bearings, miniature precision gears, radial bearings, etc.



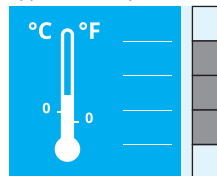
Product



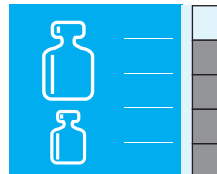
Bearing material



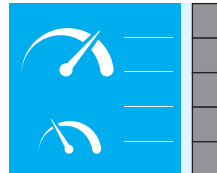
Application temperature



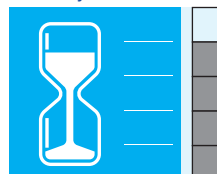
Bearing load



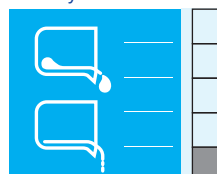
Sliding speed



Durability



Viscosity



Wetting

