Dr. Tillwich GmbH Werner Stehr

Product Specifications

Gyrosynth 992

Article No.: TS5210

Product

Fully Synthetic Precision Oil

Laboratory Data:

Kinematic Viscosity (DIN)		
	Temperature	$V (mm^2/s)$
	0°C [32°F]	340
	20°C [68°F] 40°C[104°F]	95 40
capillary viscometry	Viscosity Index (ISO)	140
Viscosity-Temperature-Behavior good		

Permanent Low Temperature -50 °C (72 hrs without crystallization) [-58°F]

Application Temperature

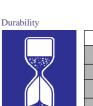
-45°C to +120°C [-49°F to +248°F]

Density 20°C [68°F] (DIN) Surface Tension Color Evaporation Rate (24 hrs/105°C [221°F])	0.98 g/cm ³ 28 mN/m yellow, clear -0.1 % very low
Drop Stability	very good
Durability Corrosion Resistance Compatibility with Plastics	very good brass: very good steel: very good on request
Chemical Name	fully synthetic oil
	on ester base

friction moment M 1/2" sphere Bearing material prism METALL POLYMER normal load F_N MINERAL **Friction Behavior** dependent on sliding speed Application f friction coefficient f temperature v (mm/s) 0.1 0.4 °C 0.20.13 0 20 0.04 50 0.01 200 0.01 steel/brass, load 3N, 25°C [77°F] materials: Bearing load lubricant: Gyrosynth 992 Wear Behavior comparison: dry and lubricated with Gyrosynth 992 materials wear (in mm) 0.01 0.03 0.1 0.3 1.0 Sliding speed St/bs: lubricated drv St/st: lubricated dry test parameters: load 30N, distance 10 km, 25°C [77°F], v = 28.1 mm/s

Tribological Data:

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



Viscosity

Comments:

Very good friction behavior at high loads and high sliding speeds. Excellent wear reducing properties. Due to a special treatment the oil does not spread, point lubrication is possible. Superb stability against aging even in contact with non-ferrous heavy metals. For-life lubrication is possible.

Application:

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





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