Dr. Tillwich GmbH
Werner Stehr

Product Specifications

Gyrosynth 9108+PTFE

Article No.: TF2430

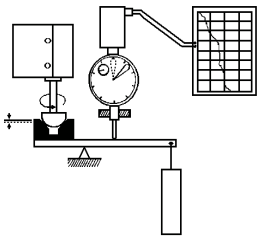
Fluorinated Fully Synthetic Precision Grease

Laboratory Data:

Unworked Penetration	250 - 310 mm/10
Worked Penetration	250 - 310 mm/10
NLGI Class	2
Consistency	medium soft
Color	white
Oil Separation (FTMS) 48 hrs/85°C [185°F]	-3 %
Permanent Low Temperature Base Oil (72 hrs fluid)	-40°C [-40°F]
Application Temperature	-35°C to 200°C [-31°F to 392°F]
Base Oil	fluorinated, fully synthetic speciality oil (contains no silicon)
Viscosity Base Oil 20°C [68°F]	160 mm²/s
Thickener	anorganic with micro PTFE powder, no metallic soaps
Durability	excellent
Drop Stability	good
Compatibility with Plastics	very good

Tribological Data:

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



Friction Behavior
dependent on sliding speed

v (mm/s)	f	friction coeffient f (0.1 / 0.2 / 0.3 / 0.4)
0	0.02	
20	0.02	
50	0.07	
200	0.25	

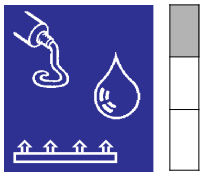
materials: steel/POM, load 3N, 25°C [77°F]
lubricant: Gyrosynth 9108+PTFE

Wear Behavior
comparison: dry and lubricated with Gyrosynth 9108+PTFE

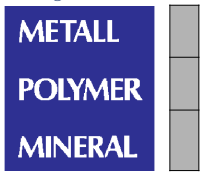
materials		wear (in mm) (0.01 / 0.03 / 0.1 / 0.3 / 1.0)
St/PC:	**G. 9108**	
	dry	
St/POM:	**G. 9108**	
	dry	

test parameters: load 30N, distance 10 km, 25°C [77°F], v = 28.1 mm/s

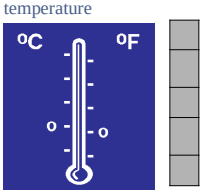
Product



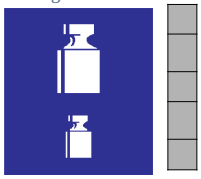
Bearing material



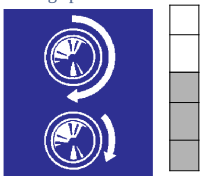
Application temperature



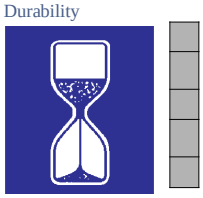
Bearing load



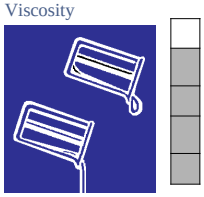
Sliding speed



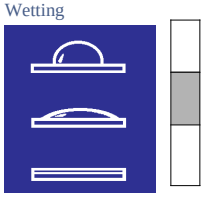
Durability



Viscosity



Wetting



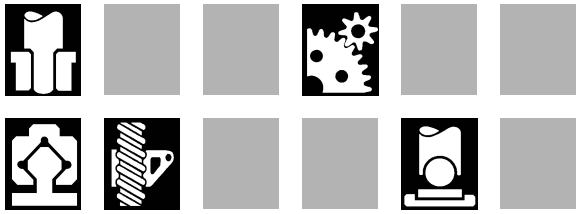
Comments:

Speciality grease for high and low temperatures. Excellent durability characteristics even when used under extreme conditions. The combination of anorganic thickener with micro PTFE powder guarantees low oil separation of the base oil as well as good emergency running properties and little stick-slip. No interaction with plastic materials and elastomers.

Application:

For plastic/plastic, plastic/metal and metal/metal bearing combinations. Spindles, sliding bearings, linear guides, connecting links, precision gears, and axial bearings with medium sliding speeds.

Suited for applications involving a vacuum up to $3 \cdot 10^{-5}$ mbar.



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