Dr. Tillwich GmbH
Werner Stehr

Product Specifications

PTFE-Grease K 7132

Article No. TF2210

Precision Grease for Metals and Plastics

Laboratory Data:

Penetration		
quarter cone	Unworked penetration	Worked penetration
	290 - 360 mm/10	290 - 360 mm/10
NLGI Class		1
Consistency		soft

Color	white
Oil Separation (FTMS) 48 hrs/85 °C [185 °F]	6 %
Permanent Low Temperature Base Oil 72 hrs fluid	-40 °C [-40 °F]
Application Temperature	-30 °C to +150 °C [-22 °F to +302 °F] max. +200 °C [+392 °F]
Base Oil	fluorinated poly-siloxane-ester-oil
Viscosity Base Oil 20 °C [68 °F]	390 mm²/s
Thickener	micro PTFE powder, no soaps
Durability	very good
Drop Stability	good
Corrosion Resistance	brass: satisfactory steel: satisfactory
Compatibility with Plastics	on request

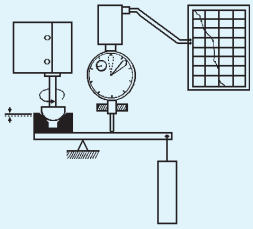
Comments:

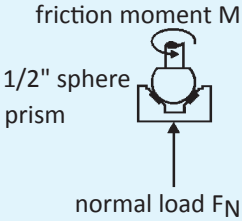
Problem solver for complicated friction conditions, even under extreme environmental demands. Very good stick-slip dampening. No diffusion of thickener into plastic materials.

P028b

Tribological Data:

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





Friction Behaviour
dependent on sliding speed

v (mm/s)	f	friction coefficient f (0.1 – 0.2 – 0.3 – 0.4)
0	0.09	
20	0.01	
50	0.01	
200	0.10	

materials: steel/brass, load 3 N, 25 °C [77 °F]
lubricant: PTFE-Grease K 7132

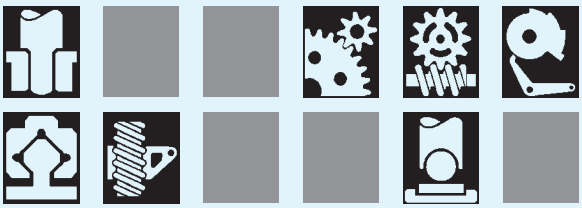
Wear Behaviour
comparison: dry and lubricated with PTFE-Grease K 7132

materials	wear (in mm) (0.01 – 0.03 – 0.1 – 0.3 – 1.0)
St/brass: TF2210	
dry	
St/POM: TF2210	
dry	

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

Application:

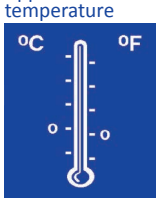
For metal and plastic sliding bearings. For geartrains, instruments, plotters, clock movements, switch clocks, linear movements; automotive, aviation and marine instruments; offshore precision equipment.



Product

Bearing material

Application temperature

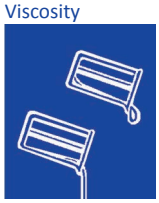


Bearing load

Sliding speed

Durability

Viscosity



Wetting

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