Dr. Tillwich GmbH
Werner Stehr

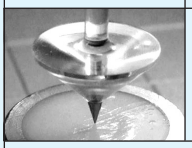
Product Specifications

Precision Grease with PTFE

Article No. TF2610

Grease for Metals and Many 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]	4 %
Permanent Low Temperature Base Oil 72 hrs fluid	-20 °C [-4 °F]
Application Temperature	-10 °C to +90 °C [+14 °F to +194 °F]
Base Oil	mineral oil with additives
Viscosity Base Oil 20 °C [68 °F]	220 - 250 mm²/s
Thickener	anorganic with micro PTFE powder, no metallic soaps
Durability	good
Drop Stability	good
Corrosion Resistance	brass: satisfactory steel: satisfactory
Compatibility with Plastics	on request

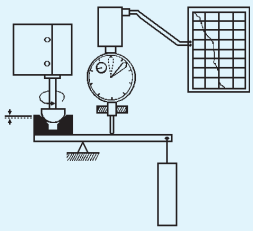
Comments:

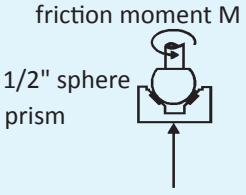
Precision Grease with PTFE is thickened with micro PTFE powder, which guarantees good emergency running properties. It may be used to lubricate plastic materials; if applied with critical polymers please test their compatibility or request results.
All components of Precision Grease with PTFE are non-poisonous.

P130a

Tribological Data:

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





Friction Behaviour
dependent on sliding speed

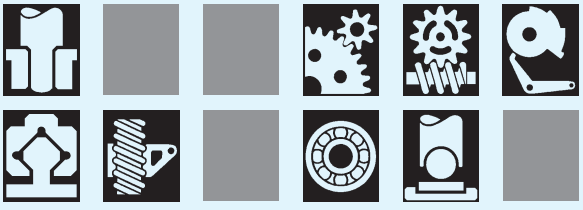
v (mm/s)	**f**	friction coefficient f (0.1 0.2 0.3 0.4)
0	0.17	
20	0.09	
50	0.05	
200	0.02	
materials:	steel/brass, load 3 N, 25 °C [77 °F]	
lubricant:	Precision Grease with PTFE	

Wear Behaviour
comparison: dry and lubricated with Precision Grease with PTFE

materials	wear (in mm) (0.01 0.03 0.1 0.3 1.0)
St/brass: TF2610	
dry	
St/PBT: TF2610	
dry	
test parameters:	load 30 N, distance 10 km, 25 °C [77 °F], v=28.1 mm/s

Application:

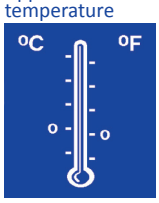
For metal/metal precision bearings (steel, non-ferrous heavy metals, aluminum, etc.); e.g. sliding bearings in measuring instruments, clock movements, recording devices, instruments and synchronous motors.
For reversing flaps, universal joints, cardan drives, splined shafts, ball bearings, guidances, etc.



Product

Bearing material

Application temperature



Bearing load

Sliding speed

Durability

Viscosity

Wetting

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Certified acc. to ISO 9001