

Product Specifications

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	-15 °C [+5 °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.

P130c

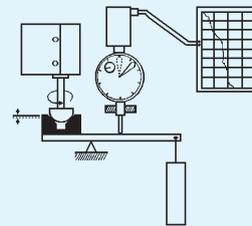
Precision Grease with PTFE

Article No. TF2610

Grease for Metals and Many Plastics

Tribological Data:

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



friction moment M
1/2" sphere
prism
normal load F_N

Friction Behaviour

dependent on sliding speed

v (mm/s)	f	friction coefficient f			
		0.1	0.2	0.3	0.4
0	0.18	[Bar chart showing f ≈ 0.18]			
20	0.10	[Bar chart showing f ≈ 0.10]			
50	0.06	[Bar chart showing f ≈ 0.06]			
200	0.05	[Bar chart showing f ≈ 0.05]			

materials: steel/brass, load 3 N, 25 °C [77 °F]
lubricant: Precision Grease with PTFE

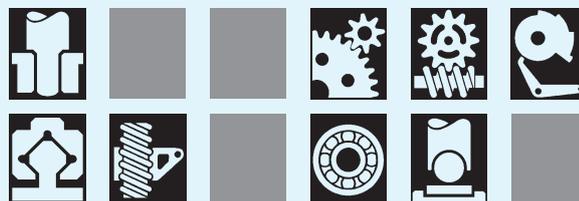
Wear Behaviour

comparison: dry and lubricated with Precision Grease with PTFE

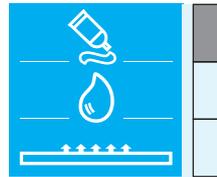
materials	wear (in mm)				
	0.01	0.03	0.1	0.3	1.0
St/brass: TF2610 dry	[Bar chart showing wear ≈ 0.03 mm]				
St/PBT: TF2610 dry	[Bar chart showing wear ≈ 0.03 mm]				
test parameters:	load 30 N, distance 10 km, 25 °C [77 °F], v=28.1 mm/s				

Application:

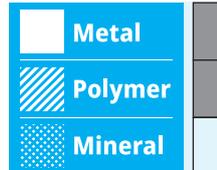
For metal/metal precision bearings (steel, non-ferrous heavy metals, aluminum, etc.); e.g. sliding bearings in measuring instruments, clock movements, recording devices, instruments and synchronous motors. For reversing flaps, universal joints, cardan drives, splined shafts, ball bearings, guidances,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



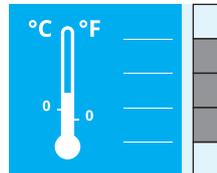
Product



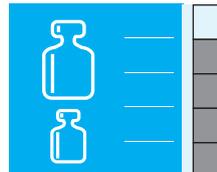
Bearing material



Application temperature



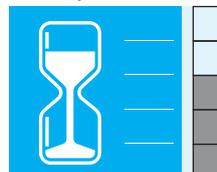
Bearing load



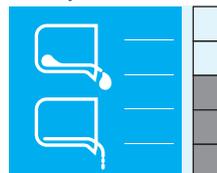
Sliding speed



Durability



Viscosity



Wetting

