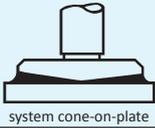


Product Specifications

Laboratory Data:

Shear Viscosity (DIN 51810-1)		
cone CP25 1° $\dot{\gamma} = 1000/s$	Temperature	η (mPa·s)
 system cone-on-plate	25 °C [77 °F]	590 - 730
Viscosity-Index (ISO)		110 (base oil)
Flow Behaviour		slightly intrinsically viscous
Viscosity-Temperature-Behaviour		good

Consistency	fluid
Color	yellow to light brown, transparent
Dropping Point	170 °C [338 °F]
Oil Separation (FTMS) 48 hrs/85 °C [185 °F]	19 %
Permanent Low Temperature Base Oil 72 hrs fluid	-20 °C [-4 °F]
Application Temperature	-10 °C to +60°C [+14 °F to +140 °F]
Base Oil	mineral oils, stabilized with friction modifier
Viscosity Base Oil 20 °C [68 °F]	210 mm ² /s
Thickener	metallic soap + anorganic
Durability	good
Corrosion Resistance	brass: good steel: very good
Compatibility with Plastics	on request

Comments:

Metallic soap thickened grease based on mineral oils with an additional special anorganic thickener. Its semi-fluid consistency eases application. Because of its lubricating properties it can be used in highly loaded bearings.

P048c

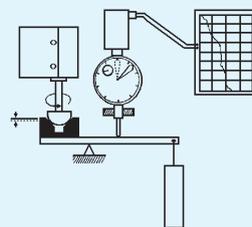
Precision Grease B 52

Article No. TF1410

Clock and Instrument Grease for Metals

Tribological Data:

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



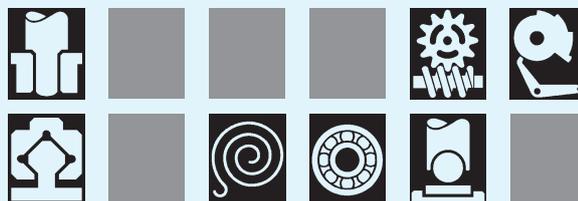
friction moment M
1/2" sphere
prism
normal load F_N

Friction Behaviour dependent on sliding speed					
v (mm/s)	f	friction coefficient f			
		0.1	0.2	0.3	0.4
0	0.09	█			
20	0.06	█			
50	0.04	█			
200	0.08	█			
materials:		steel/brass, load 3 N, 25 °C [77 °F]			
lubricant:		Precision Grease B 52			

Wear Behaviour comparison: dry and lubricated with Precision grease B 52					
materials	wear (in mm)				
	0.01	0.03	0.1	0.3	1.0
St/brass: TF1410 dry	█				
St/steel: TF1410 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 metals, aluminum, etc.); e.g. sliding bearings in measuring instruments, clock movements, recording devices, synchronous motors and instruments. For winder mechanisms, connecting pawls, ratchets, mainsprings and anchor pivots.



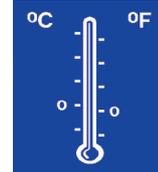
Product



Bearing material



Application temperature



Bearing load



Sliding speed



Durability



Viscosity



Wetting

