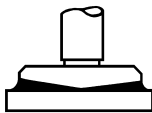


# Product Specifications

## Laboratory Data:

Dynamic Viscosity (DIN)		
Cone C60 1° D = 1000/s	Temperature	$\eta$ (mPa·s)
	25 °C [77°F]	590 - 730
system cone-on-plate	Viscosity-Index (ISO)	110 (base oil)
Flow Behavior	intrinsically viscous	
Viscosity-Temperature-Behavior	good	

<b>Consistency</b>	semi-fluid
<b>Color</b>	yellow to light brown, transparent
<b>Dropping Point</b>	170°C [338°F]
<b>Oil Separation (FTMS)</b> 48 hrs/85°C [185°F]	19 %
<b>Permanent Low Temperature Base Oil</b> (72 hrs fluid)	-20°C [-4°F]
<b>Application Temperature</b>	-10°C to 80°C [14°F to 176°F]
<b>Base Oil</b>	mineral oils, stabilized with friction modifier
<b>Viscosity Base Oil</b> 20°C [68°F]	210 mm <sup>2</sup> /s
<b>Thickener</b>	metallic soap + anorganic
<b>Durability</b>	good
<b>Corrosion Resistance</b>	brass: good steel: very good
<b>Compatibility with Plastics</b>	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.

P048a

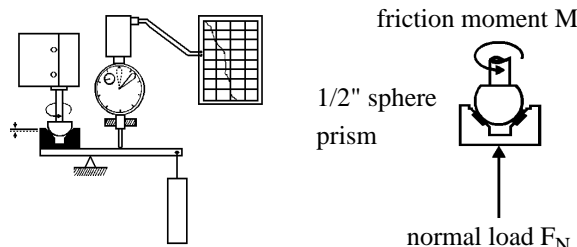
# Precision Grease B 52

Article No.: TF1410

Clock And Instrument Grease For Metals

## Tribological Data:

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

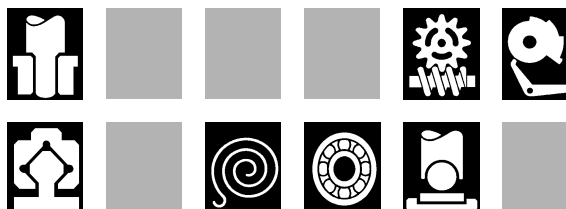


Friction Behavior					
dependent on sliding speed					
v (mm/s)	f	friction coefficient f			
		0.1	0.2	0.3	0.4
0	0.09				
20	0.06				
50	0.04				
200	0.08				
materials:		steel/brass, load 3N, 25°C [77°F]			
lubricant:		Precision Grease B 52			

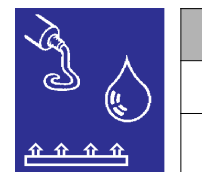
Wear Behavior						
comparison: dry and lubricated with Precision Grease B 52						
materials		wear (in mm)				
		0.01	0.03	0.1	0.3	1.0
St/brass:	<b>B 52</b>					
	dry					
St/St:	<b>B 52</b>					
	dry					
test parameters:		load 30N, distance 10 km, 25°C [77°F], v = 28.1 mm/s				

## 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.



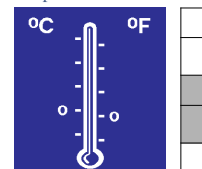
Product



Bearing material



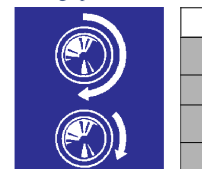
Application temperature



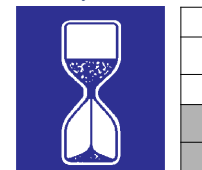
Bearing load



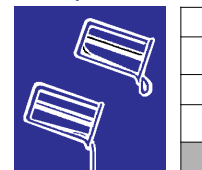
Sliding speed



Durability



Viscosity



Wetting

