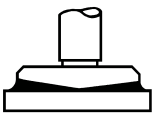


# Product Specifications

## Laboratory Data:

Dynamic Viscosity (DIN)		
<b>Cone C60 1° D = 1000/s</b>	<b>Temperature</b>	<b><math>\eta</math> (mPa·s)</b>
	25°C [77°F]	1070 - 1310
system: Cone-on-plate	<b>Viscosity-Index (ISO)</b>	420 (base oil)
<b>Flow Behavior</b>	intrinsically viscous	
<b>Viscosity-Temperature-Behavior</b>	very good	

<b>Consistency</b>	very soft
<b>Color</b>	light red
<b>Oil Separation FTMS</b> (48 hours/85°C)	-10 %
<b>Permanent Low Temperature Base Oil</b> (72 hrs. fluid)	-50°C [-58°F]
<b>Application Temperature</b>	-45°C to +120°C [-49°F to 248°F]
<b>Base Oil</b>	frigopolysiloxane alcohol
<b>Viscosity Base Oil</b> 20°C [68°F]	600 mm <sup>2</sup> /s
<b>Thickener</b>	micro Teflon powder, no metallic soaps
<b>Durability</b>	very good
<b>Compatibility with Plastics</b> compatible	PA11, PA12, PA6-3T, PA66, PBTP, PC, POM, PPO, TPU
<b>satisfactory</b>	ABS, SB
<b>incompatible</b>	ASA, POM (CL)

## Comments:

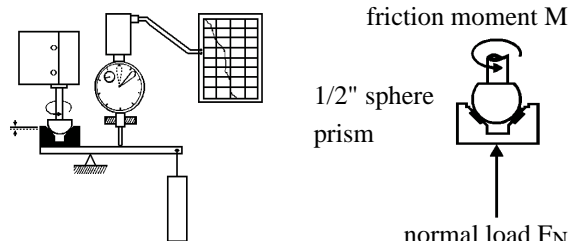
Plastic Grease K4563/600 25% PTFE has been developed particularly for applications in the automotive and aviation field. It fulfills the requirement to withstand 48 hours low temperature storage at -40°C [-40°F]. Excellent viscosity-temperature-behavior ensures very good noise damping qualities from -40°C to +120°C. Suited for most plastics. Unaffected by humidity. Applicable under high pressure loads. Emergency running properties due to micro PTFE powder. Good wetting characteristics. Epilamination with Antispread necessary, when using point lubrication.

**Experiences:** Basic oil in over 70.000.000 automotive instruments. Long-term stability (over 10 years) is well established.

F1362

## 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	0.02				
20	0.02				
50	0.01				
200	0.06				

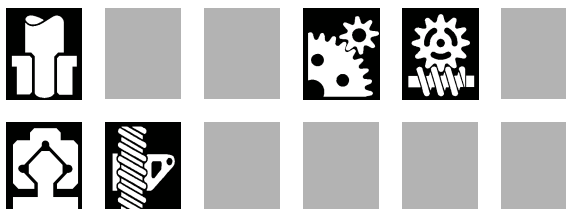
materials: steel/polyacetale, load 3N, 25°C [77°F]  
lubricant: Plastic Grease K4563/600 25% PTFE

Wear Behavior						
comparison: dry and lubricated with K4563/600 25% PTFE						
materials		wear (in mm)				
		0.01	0.03	0.1	0.3	1.0
St/POM:	<b>Grease</b>					
	<b>dry</b>					
St/PBT:	<b>Grease</b>					
	<b>dry</b>					

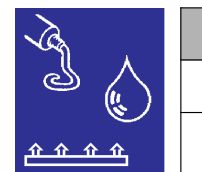
test parameters: load 30N, distance ~10 km, 25°C [77°F], v = 28.1 mm/s

## Application:

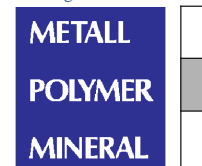
Precision gears and sliding bearings out of plastic materials in automotive and aviation instruments under difficult environmental conditions. Step motors, tachometers, tachographs, speedometers, timers, supply meters, automotive clocks,.



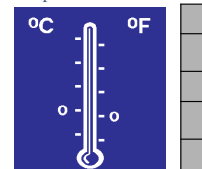
Product



Bearing material



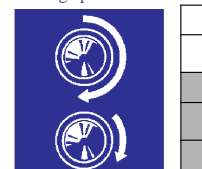
Application temperature



Bearing load



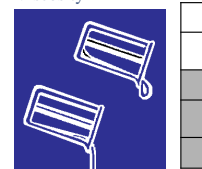
Sliding speed



Durability



Viscosity



Wetting

