




Product Specifications

Laboratory Data:

Penetration		
quarter cone	Unworked penetration	Worked penetration
	250 - 310 mm/10	250 - 310 mm/10
NLGI Class		2
Consistency		medium

Color	beige
Dropping Point	180 °C [356 °F]
Oil Separation (FTMS) 48 hrs/85 °C [185 °F]	5 %
Permanent Low Temperature Base Oil 72 hrs fluid	-15 °C [+5 °F]
Application Temperature	-10 °C to +60 °C [+14 °F to +140 °F]

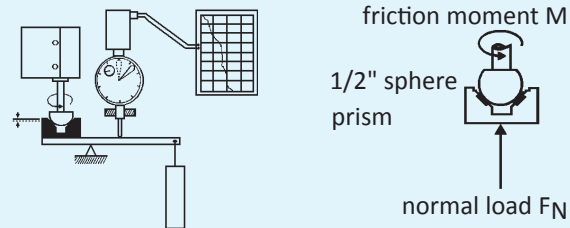
Base Oil	mineral oils, PAOs, esters, stabilized
Viscosity Base Oil 20 °C [68 °F]	140 mm ² /s
Thickener	metallic soap
Durability	good
Corrosion Resistance	brass: satisfactory steel: very good

Comments:

Metallic soap thickened grease based on mineral and ester oils with polyalpha-olefines. An ageing stabilization according to the most modern chemical procedures guarantees specifications required in the field of horological and instruments technology.

Tribological Data:

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

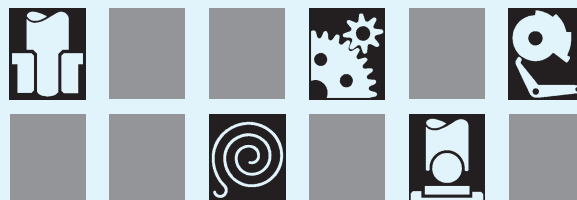


Friction Behaviour					
dependent on sliding speed					
v (mm/s)	f	friction coefficient f			
		0.1	0.2	0.3	0.4
0	0.07	<div></div>			
20	0.07	<div></div>			
50	0.05	<div></div>			
200	0.05	<div></div>			
materials:		steel/brass, load 3 N, 25 °C [77 °F]			
lubricant:		Precision Grease R 27			

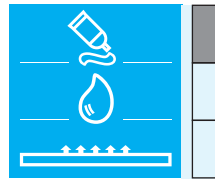
Wear Behaviour comparison: dry and lubricated with Precision Grease R 27					
materials	wear (in mm)				
	0.01	0.03	0.1	0.3	1.0
St/brass: TF1210 dry					
St/steel: TF1210 dry					
test parameters: load 30 N, distance 10 km, 25 °C [77 °F], v=28.1 mm/s					

Application:

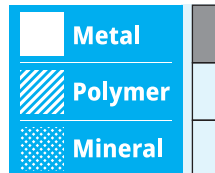
For metal/metal precision bearings (steel, non-ferrous metals, aluminum, etc.); e.g. sliding bearings in measuring instruments, clock movements, recording devices, synchronous motors and instruments. For windings, barrel arbors, anchor pivots, teeth of balance wheels, mainsprings and rotor bearings.



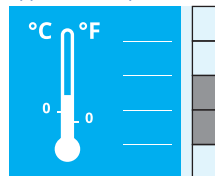
Product



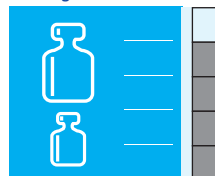
Bearing material



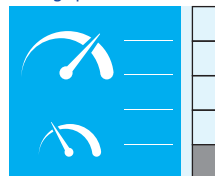
Application temperature



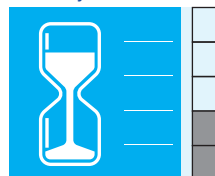
Bearing load



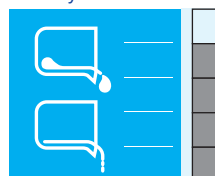
Sliding speed



Durability



Viscosity



Wetting



P045f