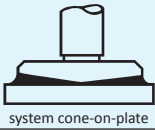




Product Specifications

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]	670 - 830
Viscosity-Index (ISO)		140 (base oil)
Flow Behaviour		intrinsically viscous
Viscosity-Temperature-Behaviour		good

Consistency	fluid
Color	slightly yellow, opaque
Dropping Point	185 °C [365 °F]
Oil Separation (FTMS) 48 hrs/85 °C [185 °F]	9 %
Permanent Low Temperature Base Oil 72 hrs fluid	-15 °C [+5 °F]
Application Temperature	-10 °C to +80 °C [+14 °F to +176 °F]
Base Oil	synthetic oil on ester base (no silicones)
Viscosity Base Oil 20 °C [68 °F]	95 mm²/s
Thickener	metallic soap
Durability	good
Drop Stability	very good
Corrosion Resistance	brass: good steel: good
Compatibility with Plastics	on request

Comments:

Flow Grease 99214-8 has been designed especially for precision bearings out of metals. Its synthetic base oil ensures high load carrying capacity and excellent ageing stability. A special thickener on base of metallic soaps gives the grease a soft consistency with defined yield point to reduce migration of the lubricant out of the bearing. The product is free of silicones.

Compatibility tests are necessary if used with plastics!

P234c

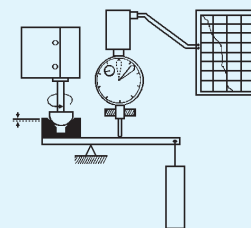
Flow Grease Gyrosynth 99214-8

Article No. TF1750

Precision Grease for Metal Bearings

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	0.13	0.1
20	0.07	0.2
50	0.04	0.3
200	0.03	0.4

materials: steel/brass, load 3 N, 25 °C [77 °F]
lubricant: Flow Grease Gyrosynth 99214-8

Wear Behaviour

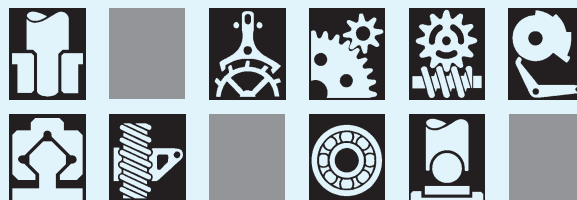
comparison: dry and lubricated with Flow Grease Gyrosynth 99214-8

materials	wear (in mm)
St/brass: TF1750	0.01 0.03 0.1 0.3 1.0
dry	
St/steel: TF1750	
dry	

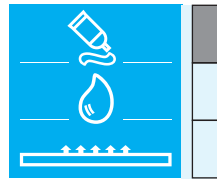
test parameters: load 30 N, distance 10 km, 25 °C [77 °F], v=28.1 mm/s

Application:

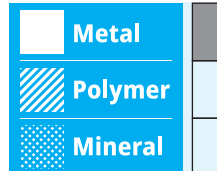
Precision bearings out of metals in watches, meters, worm gears, instruments, precision gears, plotters, printers, ball bearings, steel/brass-bearings from 0,1 to 10 mm in diameter. Low starting torques at low surrounding temperatures.



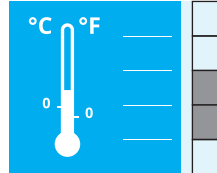
Product



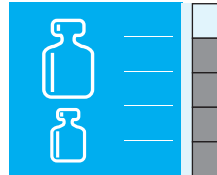
Bearing material



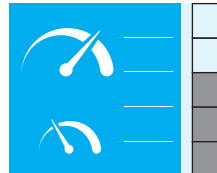
Application temperature



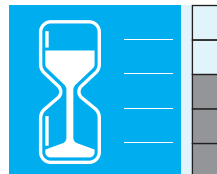
Bearing load



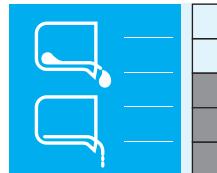
Sliding speed



Durability



Viscosity



Wetting

