Dr. Tillwich GmbH Werner Stehr

Product Specifications

Clock-Grease 859-8 + PTFE

Article No.: TF1850 **Precision Grease with Excellent Friction Behavior**

Laboratory Data:	225 275	Tribological Data: Product Test system: sphere on prism (ISO 7148/2) Image: Sphere on prism (ISO 7148/2)	
Unworked Penetration Worked Penetration NLGI Class Consistency Color	225 - 275 mm/10 215 - 265 mm/10 3 medium yellow/white	friction moment M 1/2" sphere prism	
Dropping Point Oil Separation (FTMS) 48 hrs/85°C [185°F]	180°C [356°F] -5 %	normal load F _N	
Permanent Low Temperatur Base Oil (72 hrs fluid) Application Temperature	re -20°C [-4°F] -10°C to 80°C [14°F to 176°F]	Friction Behavior dependent on sliding speed Application temperature v (mm/s) f friction coefficient f 0.1 0.2 0.3 0.4	
Base Oil Viscosity Base Oil 20°C [68°F]	synthetic oil on ester base (free of silicones) 150 mm ² /s	0 0.08	• •
Thickener Durability	metallic soaps, anti-separation-gel, micro PTFE particles very good	lubricant: Clock-Grease 859-8 + PTFE Wear Behavior Comparison: dry and lubricated with Clock-Grease 859-8 + PTFE	
Drop Stability Corrosion Resistance	very good brass: very good steel: very good	materials wear (in mm) Stilling spectrum St/brass: ClGr. Sliding spectrum Sliding spectrum	id
Compatibility with Plastics	on request	St/st: ClGr. dry	

Application:

etc.

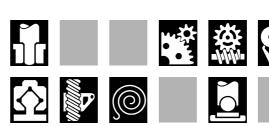
Durability

Clock-Grease 859-8 + PTFE has been developped

especially for precision bearings out of metals. It contains a fully synthetic base oil with high load carrying capacity and excellent aging stability. A special thickener combination out of metallic soaps, anti-separation-gel and micro PTFE particles guarantees high adhesion, an optimized oil separation behavior and a strong reduction of stick-slip effects. Very low friction coefficients.

Clock-Grease 859-8 + PTFE is free of silicones. If applied with plastics please test their compatibility or request results.

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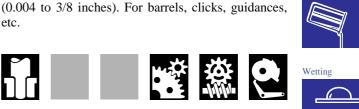
For metal bearings in clock movements, counters,

alarm clocks, helical gear trains, measuring devices,

precision gears, mainsprings, plotters, printers. For

all brass/steel bearings from 0.1 to 10 mm diameter

 $25^{\circ}C$ [77°F], v = 28.1 mm/s



Viscosity

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Comments:

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