## 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 <sub>N</sub>	
Permanent Low Temperatur Base Oil (72 hrs fluid) Application Temperature	<b>re</b> -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 <sup>2</sup> /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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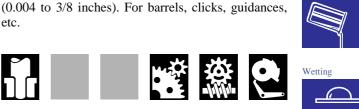
For metal bearings in clock movements, counters,

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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