

# **Product Specifications**

### **Laboratory Data:**

Penetration							
quarter cone	Unworked penetration	Worked penetration					
	235 - 285 mm/10	250 - 310 mm/10					
NLGI Class		3					

Color yellow/white 180 °C [356 °F] **Dropping Point** 

Oil Separation (FTMS) 5 % 48 hrs/85 °C [185 °F]

Permanent Low Temperature -20 °C Base Oil 72 hrs fluid [-4 °F]

**Application Temperature** -10 °C to +80 °C

[+14 °F to +176 °F]

firm

**Base Oil** synthetic oil on ester

base (free of silicones)

**Viscosity Base Oil** 150 mm<sup>2</sup>/s

20 °C [68 °F]

Consistency

**Thickener** metallic soaps, anti-separation-gel,

micro PTFE particles

**Durability** very good **Drop Stability** very good

> brass: very good steel: very good

**Compatibility with Plastics** on request

#### **Comments:**

**Corrosion Resistance** 

Clock-Grease 859-8 + PTFE has been developped especially for precision bearings out of metals. It contains a fully syntheticbase oil with high load carrying capacity and excellent ageing 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.

P285

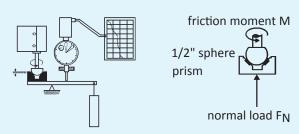
# Clock-Grease 859-8 + PTFE

**Article No. TF1850** 

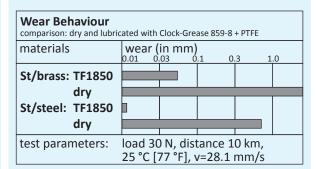
Precision Grease with Excellent Friction Behavior

### **Tribological Data:**

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



Friction Behaviour dependent on sliding speed							
<b>v</b> (mm/s)	f	friction coefficient f					
0	0.08						
20	0.06						
50	0.04						
200	0.04						
materials: steel/brass, load 3 N, 25 °C [77 °F] lubricant: Clock-Grease 859-8 + PTFE							



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

(0.004 to 3/8 inches). For barrels, clicks, guidances,

**Application:** 







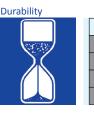
**MINERAL** 



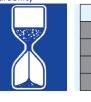




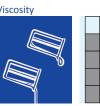








Viscosity







Certified

ISO 9001

All information reflects our best knowledge. No responsibility is

Phone: +49 (0) 7451 5386-0 Telefax: +49 (0) 7451 5386-70 info@tillwich-stehr.com

taken for printed data. Technical and chemical changes may occur without notice. We cannot be held liable for any use or application.