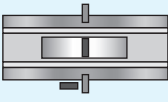


## Product Specifications

### Laboratory Data:

Viscosity		
Stabinger (ASTM D7042)	Temperature	$\nu$ (mm <sup>2</sup> /s)
	0 °C [32 °F]	550
	20 °C [68 °F]	150
	40 °C [104 °F]	60
Viscosity-Index (ISO)		150
Viscosity-Temperature-Behaviour		good

<b>Color</b>	yellow
<b>Permanent Low Temperature</b> 72 hrs fluid	-15 °C [+5 °F]
<b>Application Temperature</b>	-10 °C to +100 °C [+14 °F to +212 °F]
<b>Density</b> 20 °C [68 °F] (DIN)	0.98 g/cm <sup>3</sup>
<b>Surface Tension</b>	32 mN/m
<b>Evaporation Rate</b> 24 hrs/105 °C [221 °F]	0.1 % very low
<b>Drop Stability</b>	good
<b>Durability</b>	very good
<b>Corrosion Resistance</b>	brass: very good steel: very good
<b>Compatibility with Plastics</b> <b>compatible</b> <b>satisfactory</b> <b>incompatible</b>	PA66, PBT, POM POM (CL) ABS, ASA, PC, PPO, SB
<b>Composition</b>	arylpolyalcanoate

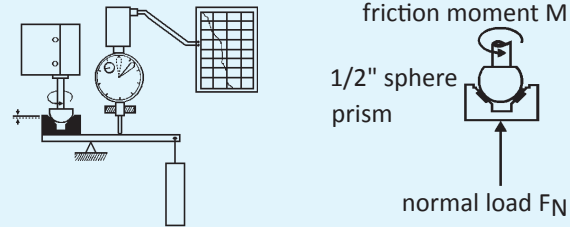
### Comments:

Clock 859 is a synthetic clock oil. Its stability against ageing is superb, even under most adverse conditions. It is compatible with steel, brass and plastic materials. Special stabilizers protect the oil from negative influences of pinion or free cutting steel. Friction values in steel/steel and brass/steel bearings are outstandingly low. Wear is reduced to a minimum.

P094e

### Tribological Data:

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

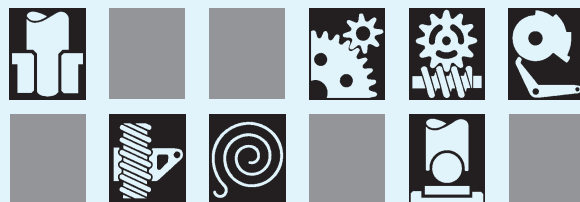


Friction Behaviour			friction coefficient f			
dependent on sliding speed			0.1	0.2	0.3	0.4
$\nu$ (mm/s)	f					
0	0.16		[Bar chart showing high friction]			
20	0.05		[Bar chart showing medium friction]			
50	0.02		[Bar chart showing low friction]			
200	0.02		[Bar chart showing very low friction]			
materials:		steel/brass, load 3 N, 25 °C [77 °F]				
lubricant:		Clock 859				

Wear Behaviour		wear (in mm)				
comparison: dry and lubricated with Clock 859		0.01	0.03	0.1	0.3	1.0
materials		[Bar chart showing wear levels]				
St/brass: TS5100	dry	[Bar chart showing high wear]				
St/steel: TS5100	dry	[Bar chart showing high wear]				
test parameters:	load 30 N, distance 10 km, 25 °C [77 °F], $\nu=28.1$ mm/s					

### Application:

For clock movements, counters, printers, alarm clocks, helical gear trains, measuring devices, precision gears, plotters, brass/steel bearings from 0.1 to 10 mm diameter (0.004 to 3/8 inches).



Product

Bearing material

- Metal
- Polymer
- Mineral

Application temperature

Bearing load

Sliding speed

Durability

Viscosity

Wetting