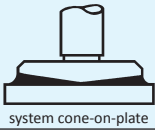


Product Specifications

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] | 450 - 550 |
| Viscosity-Index (ISO) | | 130 (base oil) |
| Flow Behaviour | | slightly intrinsically viscous |
| Viscosity-Temperature-Behaviour | | good |

| | |
|---|--|
| Consistency | fluid |
| Color | yellow, transparent |
| Dropping Point | 165 °C [329 °F] |
| Oil Separation (FTMS) 48 hrs/85 °C [185 °F] | 26 % |
| Permanent Low Temperature Base Oil 72 hrs fluid | -40 °C [-40 °F] |
| Application Temperature | -30 °C to +90 °C [-22 °F to +194 °F] |
| Base Oil | LGN Watch Oil |
| Viscosity Base Oil 20 °C [68 °F] | 125 mm ² /s |
| Thickener | combination of metal soaps and anorganic gel thickener |
| Durability | very good |
| Drop Stability | very good |
| Corrosion Resistance | brass: very good steel: very good |

Comments:

Metal soap thickened grease based on ester oils with an additional anorganic gel thickener. Its semi-fluid consistency eases application. Because of its excellent lubricating properties it may be used in highly loaded bearings. Very low static friction coefficient. Very good adhesion of the grease on the surface. No separation of the oil. Do not use for lubrication of plastic materials.

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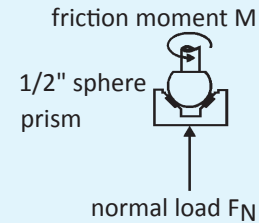
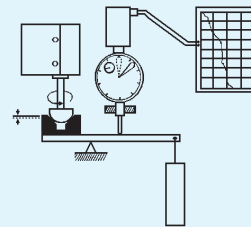
LGN Watch Grease

Article No. TF1600

Synthetic High Precision Watch and Clock Grease

Tribological Data:

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

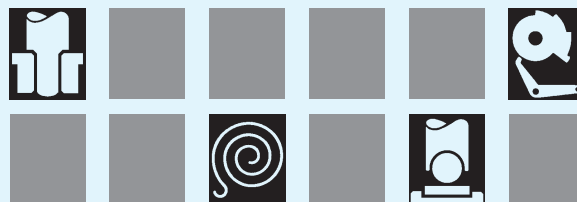


| Friction Behaviour | | |
|----------------------------|------|--------------------------------------|
| dependent on sliding speed | | |
| v (mm/s) | f | friction coefficient f |
| | | 0.1 0.2 0.3 0.4 |
| 0 | 0.11 | |
| 20 | 0.06 | |
| 50 | 0.04 | |
| 200 | 0.04 | |
| materials: | | steel/brass, load 3 N, 25 °C [77 °F] |
| lubricant: | | LGN Watch Grease |

| Wear Behaviour | |
|--|-----------------------|
| comparison: dry and lubricated with LGN Watch Grease | |
| materials | wear (in mm) |
| | 0.01 0.03 0.1 0.3 1.0 |
| St/brass: TF1600 dry | |
| St/steel: TF1600 dry | |
| test parameters: load 30 N, distance 10 km, 25 °C [77 °F], v=28.1 mm/s | |

Application:

For sliding combinations out of metals (e. g. brass/steel, steel/steel, etc.) in watches, clocks and instruments. For lubrication of pivots, winding-mechanisms, clicks, open slide-ways, mainsprings and pallet pins.



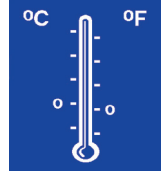
Product



Bearing material



Application temperature



Bearing load



Sliding speed



Durability



Viscosity



Wetting

