

Product Specifications

Laboratory Data:

| | Temperature | $V (mm^2/s)$ | |
|-------------------|--------------------------|--------------|--|
| M ₁ | 0°C [32°F] | 160 | |
| | 20°C [68°F] | 100 | |
| | 40°C[104°F] | 70 | |
| illary viscometry | Viscosity Index (ISO) | 420 | |

Permanent Low Temperature -35°C (72 hrs without crystallization) [-31°F]

Application Temperature -30°C to +120°C $[-22^{\circ}F \text{ to } +248^{\circ}F]$

 0.97 g/cm^3 **Density** 20°C [68°F] (DIN) **Surface Tension** 22 mN/m Color (ASTM) colorless -0.1 % **Evaporation Rate** (24 hrs/105°C [221°F]) very low Wetting very good **Durability** very good

Compatibility with Plastics

compatible PA11, PA66, PBTP, PC

POM, PPO, SB, TPU satisfactory ABS, PA12, PA6-3T incompatible ASA, POM (CL) **Chemical Name** Polysiloxanealcohol

Comments:

Special lubricant for plastic/plastic and plastic/metal bearing combinations. Very good friction and wear reduction. Aging better than silicone oils. Among the highest Viscosity Indices of all known clock and instrument oils, which allows for both, application in wide temperature ranges and excellent noise damping. Good wetting characteristics. Epilamisation with Antispread necessary, when applying large quantitites of oil.

Experiences: For over 10 years in series production. Manufactured quantity over 50.000.000 clock movements. Long-term stability (over 10 years) is well established.

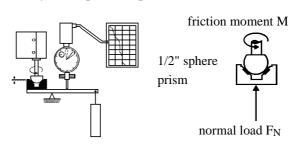
Plastic Oil K2363/100

Article No.: TS2100

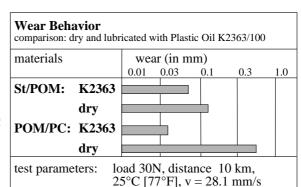
Precision Lubricant for Plastics

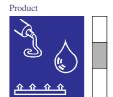
Tribological Data:

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



| Friction B dependent on | | | | | | | |
|-------------------------|---------------------------------|----|------------------------|-----|-----|-----|--|
| v (mm/s) | f | fr | friction coefficient f | | | | |
| | | | 0.1 | 0.2 | 0.3 | 0.4 | |
| 0 | 0.11 | | | | | | |
| 20 | 0.01 | 0 | | | | | |
| 50 | 0.01 | | | | | | |
| 200 | 0.01 | | | | | | |
| materials: | steel/POM, load 3N, 25°C [77°F] | | | | | | |
| lubricant: | Plastic Oil K2363/100 | | | | | | |





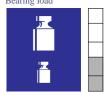




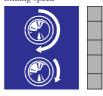
Application

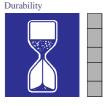


Bearing load

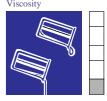


Sliding speed





Viscosity



Plastic bearings in precision machinery; analog quartz movements (step-motor), switch clocks, timers, medical instruments, optics, cameras, cassette decks, controls, video drives.





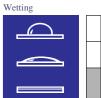
















Application:









