Dr. Tillwich GmbH Werner Stehr

Fluorstatic 70 PTFE

Product

AER

RAL

Article No.: TF2450 **Precision Grease for Metals and Plastics**

Product Specifications

Laboratory Data:

| Dynamic Visc | cosity (DIN) | | | | |
|---|--|--|--|--|--|
| Cone C60 1° D = 1000/s | Temperature | η (mPa·s) | | | |
| | 25 °C [77°F] | 365 - 495 | | | |
| system cone-on-plate | Viscosity- Index (ISO) | 140 (base oil) | | | |
| Flow Behavior Viscosity-Tem | r in perature-Behavior | trinsically viscous | | | |
| Color Oil Separation 48 hrs/85°C [18 Permanent Loy Base Oil (72 hrs | w (FTMS) -1 5°F] w Temperature s fluid) | hite 8 % -45°C [-49°F] | | | |
| Application Temperature | | -40°C to 200°C [-40°F to 292°F] | | | |
| Base Oil Viscosity Base Oil | | perfluorinated polyether 70 mm ² /s | | | |
| Thickener | m | micro PTFE powder, no metallic soaps | | | |
| Durability Dron Stability | ех | cellent | | | |
| Compatibility with Plastics | | very good | | | |

| | | | | | Product | | |
|---------------------------------------|-----------------------------|--------------------------|---------------------|------------------|-------------|-------------------|-------------------------|
| 1 ridolo Test systen | n: spher | Jata: e on pri | sm (IS | O 7148 | 3/2) | | A Contraction |
| | | | | friction | n mon | nent M |) <u>مممم</u> |
| | | | 1/2" s prism | sphere 1 | | | Bearing mate |
| maaruu | | | | nor | mal lo | ad F _N | POLYM MINER |
| Friction B dependent on | ehavior sliding spe | eed | | | | | Application temperature |
| v (mm/s) | f | frict | ion coe 0.1 | effient f | f 0.3 | 0.4 | °C - |
| 0 | 0.07 | | | | | | |
| 20 | 0.03 | | | | | | • |
| 50 | 0.03 | | | | | | ଦ |
| 200 | 0.03 | | | | | | Desire 1 and |
| materials: lubricant: | | steel/PC Fluorsta | M, loantic 70 | nd 3N, 2 PTFE | 25°C [| 77°F] | |
| Wear Beh comparison: o | avior dry and lub | ricated wi | ith Fluor | static 70 | PTFE | | |
| materials | | wea | r (in mm 0.02 | l) 0.1 | 0.3 | 1.0 | |
| St/brass: 7 | FF2450 | | 0.05 | 0.1 | 0.5 | 1.0 | Sliding speed |
| i i i i i i i i i i i i i i i i i i i | lrv | | | | | | |
| St/POM: 7 | ГF2450 | | | | | | |
| | lry | | | | | | |
| test parame | eters: 1 | oad 30N 25°C [77 | l, dista 7°F], v | nce 10 = 28.1 | km, mm/s | | |
| | | | | | | | Durability |



Comments:

Problem solver for difficult sliding processes even under extreme environmental conditions. High resistance against aging and oxidation reactions. Incorporated micro PTFE powder guarantees emergency running properties. Very good stick slip damping. No diffusion of thickener into plastic materials.

Application:

For metal/metal, metal/jewel, metal/plastic, and plastic/plastic bearings. For miniature bearings, precision gears, instruments, plotters, printers, clock movements, linear guiding systems, connecting links, ball bearings, controls, automotive, aviation and nautical instruments, offshore instruments.





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