DuPont™ Krytox®

PERFORMANCE LUBRICANTS

ELECTRONIC FLUORINATED GREASES

Typical Properties* of Krytox® Electronic Fluorinated Greases

Electronic Grease Grade	EG 2000	EG 3000
Viscosity of Base Oil, cSt D-445		
at 20°C (68°F)	800	1600
at 38°C (100°F)	270	500
at 99°C (210°F)	26	43
at 204°C (400°F)	3.9	6.0
Vapor Pressure of Base Oil Knudsen		
at 38°C (100°F) torr	8×10^{-8}	6×10^{-9}
at 260°C (500°F) torr	2×10^{-3}	3×10^{-4}
Volatility of Base Oil D-972 (Mod) wt% loss in 22 hr		
at 149°C (300°F)	—	—
at 204°C (400°F)	1	—
at 260°C (500°F)	6	3
Pour Point of Base Oil D-97		
°C	–35	–30
°F	–30	–20
Texture	Buttery	Buttery
Penetration ASTM D-217 60 Strokes	265–295	265–295
Mechanical Stability ASTM D-217 10,000 St 100,000 Strokes	No change from original grade	No change from original grade
Oxidation Stability ASTM D-942 99°C (210°F)	0 psig O_2 pressure drop after 600 hr	0 psig O_2 pressure drop after 600 hr
Liquid Oxygen Impact ASTM D-2512, NASA MSFC 106B	Pass	Pass
Grease Density, g/ml 25°C (77°F)	1.93	1.93
Oil Separation FTMS 791B 321.1 wt% loss in 30 hr		
at 99°C (210°F)	3	3
at 204°C (400°F)	11	10
Evaporation FTMS 791B 350.1 wt% loss in 22 hr		
at 99°C (210°F)	—	Not tested
at 204°C (400°F)	1	1
at 260°C (500°F)	6	6
Estimated Useful Range		
°C	–34 to 288	–29 to 316
°F	–30 to 550	–20 to 550+

*This table gives typical properties (not specifications) based on historical production performance. Viscosity may vary within ±10%. DuPont does not make any express or implied warranty that these products will continue to have these typical properties.

All standard grades of grease are thickened with Krytox® 2000 polytetrafluoroethylene PTFE, whose formula is $(CF_2–CF_2)_n$. This special high efficiency thickener has a melting point of 325°C (617°F) and has low molecular weight and sub micron (.2 m) particle size for higher performance in bearings.

Krytox® EG series greases are white buttery greases with all of the same properties as the 143 series oils that they are made from, but they are in grease form.

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