

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) at 38°C (100°F) at 99°C (210°F) at 204°C (400°F)	800 270 26 3.9	1600 500 43 6.0
Vapor Pressure of Base Oil Knudsen at 38°C (100°F) torr at 260°C (500°F) torr	8×10^{-8} 2×10^{-3}	6×10^{-9} 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) at 260°C (500°F)	— 1 6	— — 3
Pour Point of Base Oil D-97 °C °F	-35 -30	-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) at 204°C (400°F)	3 11	3 10
Evaporation FTMS 791B 350.1 wt% loss in 22 hr at 99°C (210°F) at 204°C (400°F) at 260°C (500°F)	— 1 6	Not tested 1 6
Estimated Useful Range °C °F	-34 to 288 -30 to 550	-29 to 316 -20 to 550+

*This table gives typical properties (not specifications) based on historical production performance. Viscosity may vary within $\pm 10\%$. 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 μ 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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