

“E” Series Greases

Product Information

Krytox™ GPL 2E(x) lubricants are formulated using new anti-rust additives. Our standard perfluoropolyether (PFPE) greases use sodium nitrite as an additive for anti-rust. The new additives are effective at low concentration levels, are environmentally friendly, and do not pose any restrictions on long-term recyclability of the grease.

Krytox™ GPL E series lubricants are high quality, ultrahigh performance anti-friction and anti-rust lubricants. Formulated with synthetic perfluoropolyether fluids, organic anti-rust additives, and the most efficient polytetrafluoroethylene (PTFE) thickeners available, these lubricants exceed the performance requirements of your most demanding applications.

Typical Properties of Krytox™ E Series Greases

	GPL 2E0	GPL 2E1	GPL 2E2	GPL 2E3	GPL 2E4	GPL 2E5	GPL 2E6	GPL 2E7
ISO Grade of Base Oil	5	7	15	32	68	150	220	460
Estimated Useful Temperature Range, °C (°F)	≤70/66 (≤94/150)	≤70/104 (≤94/220)	-63/132 (-81/270)	-60/154 (-76/310)	-51/179 (-60/355)	-36/204 (-33/400)	-36/260 (-33/500)	-30/288 (-22/550)
Oil Viscosity, cSt								
20 °C (68 °F)	7	16	36	80	180	550	810	1600
40 °C (104 °F)	4	8	15	30	60	160	240	440
100 °C (212 °F)	—	2	3	5	9	18	25	42
Oil Viscosity Index	—	—	59	121	124	125	134	155
Oil Density, g/mL								
0 °C (32 °F)	1.87	1.89	1.91	1.92	1.93	1.94	1.95	1.95
100 °C (212 °F)	1.67	1.70	1.72	1.74	1.75	1.76	1.77	1.78
Base Oil Pour Point, °C (°F)	≤70 (≤94)	≤70 (≤94)	-63 (-81)	-60 (-76)	-51 (-60)	-36 (-33)	-36 (-33)	-30 (-22)

While Krytox™ oils are inert and nonreactive to all elastomers, plastics, and metals, the soluble additives in the lubricants are new, and we have not tested them with all materials. It is possible that some reactivity and damage could occur to some materials. These additives have not been tested at all temperatures, and degradation of performance could occur at elevated temperatures over a long period of time.

Performance Test	Test Method	Typical Results
Steel on Steel Wear (4-Ball) 1,200 rpm, 40 kg, 75 °C (167 °F)	ASTM D2266	2E4 = 0.694 mm 2E5 = 0.877 mm
Steel on Steel Wear (Block on Ring)	ASTM D2714	2E5 = 1.2 mm 2E6 = 0.83 mm 2E7 = 0.50 mm
Rust Preventive Properties (Bearing)	IP 220 (EMCOR)	0 = No rust

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For product information, industry applications, technical assistance, or global distributor contacts, visit krytox.com or within the U.S. and Canada, call 1-844-773-CHEM/2436 or outside of the U.S., call 1-302-773-1000.

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