



Krytox 240 series

Technical Specifications

Property	ASTM Test Method	Test Conditions	Units	Aerospace Grade				
Aerospace Grease Grade				240AZ (H-1)	240AA	240AB (H-1)	240AC (H-1)	240AD
Extreme Pressure Grade				250AZ	—	—	250AC	250AD
Rust Inhibited Grade				—	—	280AB	280AC	—
Rust Inhibited Grade				283AZ	283AA	283AB	283AC	283AD
Viscosity of Base Oil	ASTM D445	20 °C (68 °F)	cSt	60	88	240	800	1540
		38 °C (100 °F)		24.7	35	86	270	502
		99 °C (210 °F)		4.2	5.4	10.5	26	44
		204 °C (400 °F)		1.08	1.3	2.1	4.1	6.0
Vapor Pressure of Base Oil	Knudsen	38 °C (100 °F)	torr	4×10^{-4}	1×10^{-4}	5×10^{-6}	8×10^{-8}	6×10^{-9}
		260 °C (500 °F)	torr	1.5	0.8	3×10^{-2}	2×10^{-3}	3×10^{-4}
Volatility of Base Oil	ASTM D2595	149 °C (300 °F)	wt% loss	18	15	1.9	—	—
		204 °C (400 °F)	in 22 hr	—	—	17.3	<1	—
		260 °C (500 °F)		—	—	76.2	4	2
Pour Point of Base Oil	ASTM D97		°C	-55	-50	-40	-35	-30
			°F	-70	-60	-40	-30	-20
Penetration	ASTM D217	60 Strokes		265–295				
Mechanical Stability	ASTM D217	10,000 and 100,000 Strokes		No change from original grade				
Oxidation Stability	ASTM D942	99 °C (210 °F)		0 psig O ₂ pressure drop after 600 hr				
Liquid Oxygen Impact	ASTM D2512, NASA MSFC 106B			Pass				
Grease Density		25 °C (77 °F)	g/mL	1.89	1.91	1.92	1.93	1.93
Oil Separation	ASTM D6184	99 °C (210 °F)	wt% loss	6	5	4	3	3
		204 °C (400 °F)	in 30 hr	—	20	12	11	10
Estimated Useful Range			°C	-57–149	-51–177	-40–232	-34–288	-29–316
			°F	-70–300	-60–350	-40–450	-30–550	-20–550+

Features & Benefits

- 240 series are white buttery greases with all of the same properties as 143 series oils but are in grease form

Applications

- aviation & aerospace