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## Krytox 143AC, 143AD **Technical Specifications**

Property	ASTM Test Method	Test Conditions	Units	143AZ	143AA	143AB	143AC	143AD
Average Molecular Weight	NMR			2060	2210	3800	5940	7480
Viscosity	ASTM D445	-32 °C (-25 °F) 0 °C (32 °F) 20 °C (68 °F) 38 °C (100 °F) 40 °C (104 °F) 99 °C (210 °F) 100 °C (212 °F) 204 °C (400 °F) 260 °C (500 °F)	cSt	7480 228 60 24.7 22.8 4.2 4.1 1.1	12,340 350 88 35 32 5.4 5.3 1.3	44,620 1070 240 86 78 10.5 10.2 2.1	3940 800 270 243 26 25.4 4.1 2.4	7500 1540 502 450 44 42.4 6.0 3.4
Viscosity Index	ASTM D2270			60	96	113	134	146
Pour Point	ASTM D97		°C °F	-55 -70	-50 -60	-40 -40	-35 -30	-30 -20
Distillation Range	ASTM D1160	53 Pa (0.4 torr)	°C	140/210 285/410	170/245 340/475	215/290 420/555	260/370 500/700	300/400+ 570/750+
Oil Density		0 °C (32 °F) 100 °C (212 °F)	g/mL	1.91 1.72	1.92 1.74	1.93 1.75	1.95 1.77	1.95 1.78
Vapor Pressure	Knudsen	38 °C (100 °F) 260 °C (500 °F) 38 °C (100 °F) 260 °C (500 °F)	torr torr KPa KPa	4 x 10 <sup>-4</sup> 1.5 5 x 10 <sup>-5</sup> 0.2	1 x 10 <sup>-4</sup> 0.8 1 x 10 <sup>-5</sup> 0.1	5 x 10 <sup>-6</sup> 3 x 10 <sup>-2</sup> 7 x 10 <sup>-7</sup> 4 x 10 <sup>-3</sup>	8 x 10 <sup>-8</sup> 2 x 10 <sup>-3</sup> 1 x 10 <sup>-8</sup> 3 x 10 <sup>-4</sup>	$6 \times 10^{-9}$ $3 \times 10$ $8 \times 10^{-10}$ $4 \times 10^{-5}$
Volatility	ASTM D2595	149 °C (300 °F) 204 °C (400 °F) 260 °C (500 °F)	wt% loss in 22 hr	18 _ _	15 _ _	1.9 17.3 76.2	- <1 4	_ _ 2
Estimated Useful Range			°C °F	-57-149 -70-300	-51-177 -60-350	-40-232 -40-450	-34-288 -30-550	-29-316 -20-600

## **Features & Benefits**

- 143 series oils are clear, fluorinated synthetic oils that are inert, nonreactive, nonflammable, & safe in chemical & oxygen service
- engineered to withstand incredibly harsh environments experienced in orbital flights in the vacuum of space

## **Applications**

· maintenance & repair · aerospace & aviation · oxygen devices