



Krytox 1506 - 16256(XP)

Technical Specifications

Property	Test		Units	DuPont™ Krytox®					
	Method	Conditions		1506/1506XP	1514/1514XP	1525/1525XP	1531/1531XP	1618	16256
Average Molecular Weight	NMR			2160	2840	3470	3100	3130	9400
Vapor Pressure**	Knudsen	20°C (68°F)	torr	4 x 10 ⁻⁷	2 x 10 ⁻⁷	1 x 10 ⁻⁷	1 x 10 ⁻⁷	5 x 10 ⁻⁹	3 x 10 ⁻¹⁴
		50°C (122°F)		1 x 10 ⁻⁵	3 x 10 ⁻⁶	1 x 10 ⁻⁶	1 x 10 ⁻⁶	2 x 10 ⁻⁷	2 x 10 ⁻¹²
		100°C (212°F)		1 x 10 ⁻³	1 x 10 ⁻⁴	3 x 10 ⁻⁵	3 x 10 ⁻⁵	2 x 10 ⁻⁵	1 x 10 ⁻⁹
		200°C (392°F)		5 x 10 ⁻¹	1 x 10 ⁻²	2 x 10 ⁻³	2 x 10 ⁻³	1 x 10 ⁻²	2 x 10 ⁻⁶
Kinematic Viscosity	ASTM D445	20°C (68°F)	mm ² /s	60	140	250	310	180	2560
		50°C (122°F)	(cSt)	15.5	32	52	63	39	437
		100°C (212°F)		4.1	7.2	10.6	12.5	8.4	64.6
Density		20°C (68°F)	g/cc	1.88	1.89	1.90	1.90	1.89	1.92
		50°C (122°F)		1.82	1.83	1.84	1.84	1.83	1.87
		100°C (212°F)		1.73	1.74	1.75	1.75	1.74	1.78
		200°C (392°F)		1.54	1.55	1.56	1.56	1.55	1.61
Pour Point	ASTM D97		°C (°F)	-60 (-76)	-54 (-65)	-48 (-54)	-41 (-42)	-40 (-40)	-15 (5)
Distillation Range at 0.4 torr	ASTM D1160	10%	°C (°F)	160 (320)	200 (392)	200 (392)	200 (392)	210 (410)	NA
		90%		220 (428)	280 (536)	300 (572)	300 (572)	280 (536)	NA
Heat of Vaporization	Knudsen	150–250°C (302–482°F)	cal/g	9	7	6	6	7	NA
Volatility at 22 hr	ASTM D2595	121°C (250°F)	%	6.5	1.3	0.6	0.4	0.3	0.2
Surface Tension		25°C (77°F)	dyn/cm	17	18	19	19	18	19

* This table gives typical properties based on historical production performance. DuPont does not make any express or implied warranty that these products will continue to have these typical properties.

** Actual values are equal to or less than those indicated.

Features & Benefits

- used in applications where conventional vacuum pump oils cause safety, waste disposal & maintenance problems
- nonflammable, nonreactive & safe to use in oxygen systems
- viscosity varies per grade. 1506 is the least viscous
- distilled to provide low vapor pressures & give superior performance
- oil is recyclable
- XP series contain a soluble additive to prevent rust

Applications

- maintenance & repair • chemical & oxygen service applications