



MicroCare™ Alternatives for 3M™ Novec™ Products

Physical Properties Comparison								
Properties	3M™			Chemours™		MicroCare™		
	Novec™ 7200	Novec™ 7100	Novec™ 711PA	Vertrel™ XF	Opteon™ SF33	Tergo™ PF100	Tergo™ PF105	Teres™
Formulation	HFE	HFE	HFE + alcohol	HFC	HFO	HFE	HFE + alcohol	HFE
Boiling Point (C)	76	61	55	54	33	56	54	51
Liquid Density (g/mL)	1.43	1.52	1.48	1.58	1.36	1.47	1.4	1.38
Surface Tension (dynes/cm)	13.6	13.6	14.5	14.1	13	16.4	16.1	15
Vapor Pressure (mmHg)	109	202	207	226	525	233	206	271
Viscosity (cps)	0.61	0.61	-	0.67	0.38	0.65	0.60	0.46
Heat of Vaporization (cal/g @ boiling point)	30	30	39	31	40	39	45	41
Ozone Depletion Potential - ODP	0	0	0	0	0	0	0	0
Global Warming Potential	55	320	310	1700	2	580	580	27
Flashpoint	None	None	None	None	None	None	None	None
Flammability Limits	2.4-12.4%	None	4-16.7%	None	None	None	None	None



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