3M™ ThermaVolt 10 mil
Calendered Inorganic Insulating Paper

Data Sheet **April 2013**

3M ThermaVolt Calendared Inorganic Insulating Paper was developed to meet the high performance required for use in high temperature, dry-type transformers. ThermaVolt offers good dielectric characteristics and thermal conductivity – making them especially suitable for use as interwinding insulation in strip-wound and wire-wound coils. ThermaVolt is qualified for use as major ground insulation in electrical insulation systems rated through Class 220(R) per UL 1446 and IEC Std. 61857. 3M Innovative Paper Technologies UL Recognized Insulation Systems (File No. 65007).

		ASTM Test Method	ThermaVolt 10 mil
Nominal Thickness	mm mil	D-645	0.25 10
Basis Weight	g/m^2 lb/yd^2	D-202	366 0.67
Tensile Strength, MD	lb/inch N/cm	D-828	53 93
Tensile Strength, CD	lb/inch N/cm	D-828	34 60
Elongation to Break, MD	%	D-828	1.5
Elongation to Break, CD	%	D-828	1.1
Elmendorf Tear, MD	g N	D-689	280 2.7
Elmendorf Tear, CD	g N	D-689	354 3.5
Dielectric Breakdown Voltage	kV	D-149	5.0
Flame Rating	UL File E65069	UL 94	V-0, 5VA

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