3M™ CeQUIN IF 10+1
Duplex Electrical Insulating Paper

Data Sheet **November 2013**

3M™ CeQUIN IF Duplex Electrical Insulating Paper is a laminate of CeQUIN I Inorganic Based Insulating Paper bonded to polyester (PET) film. CeQUIN IF paper is qualified for use as major ground insulation in electrical insulation systems rated through Class 220(R) per UL 1446 and IEC Std. 61857. It is suitable for applications including ground and layer insulation in dry-type transformers, as well as spiral-wound tubing and interwinding insulation in strip-wound coils and electromagnet coils. 3M UL Recognized Insulation Systems may be found in UL File No. 65007.

		ASTM Test Method	Typical Values
Nominal Thickness	mm mil	D-645	0.28 11
Basis Weight	g/m^2 lb/yd^2	D-202	310 0.57
Tensile Strength, MD	lb/inch N/cm	D-828	30 53
Tensile Strength, CD	lb/inch N/cm	D-828	23 40
Elmendorf Tear, MD	g N	D-689	200 2.0
Elmendorf Tear, CD	g N	D-689	236 2.3
Dielectric Breakdown Voltage	kV	D-149	5.5
Moisture Absorption	%	D-689	<1

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