

3M™ CeQUIN IF 10+1 Laminate

Duplex Electrical Insulating Paper

Data Sheet

July 2010

CeQUIN IF is CeQUIN inorganic based insulating paper bonded to polyester (PET) film. CeQUIN IF 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 Innovative Paper Technologies UL Recognized Insulation Systems (File No. 65007) may be found on UL's Electrical Insulation Systems Database at <http://www.ul.com/eis/>.

		ASTM Test Method	IF 10+1
Nominal Thickness	mm mil	D-645	0.28 11
Basis Weight	g/m ² lb/yd ²	D-202	310 0.57
Density	g/cc		1.1
Tensile Strength, MD	lb/inch N/cm	D-828	30 53
Tensile Strength, CD	lb/inch N/cm	D-828	20 35
Elmendorf Tear, MD	g N	D-689	144 1.4
Elmendorf Tear, CD	g N	D-689	224 2.2
Dielectric Breakdown Strength	kV	D-149	5.0
Moisture Absorption	%	D-644	<1

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Electrical Markets Division 3M Innovative Paper Technologies

1 Paper Trail
Tilton, NH 03276-5250
866 357 2737
FAX: 603 286 4859
www.3M.com/flexibleinsulation

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