

3M™ CeQUIN IF 5+1

Duplex Inorganic Insulating Paper

Data Sheet

April 2010

CeQUIN IF is CeQUIN I Inorganic Insulating Paper laminated 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. 60085. CeQUIN I Inorganic Insulating Paper is 3M's highest inorganic-content paper – comprised primarily of glass fibers, glass microfibers and inorganic filler material. The high inorganic content of CeQUIN I paper provides the excellent thermal and dielectric stability that is required for today's high-performance designs. CeQUIN I is compatible with most commonly used impregnating varnishes and resins, and is easily impregnated, further enhancing thermal conductivity and coil bonding characteristics. 3M Innovative Paper Technologies UL Recognized Insulation Systems (File No. 65007) may be found on UL's Electrical Insulation Systems database at <http://database.ul.com/systems/>.

		ASTM Test Method	CeQUIN IF 5+1
Nominal Thickness	mm mil	D-645	0.15 6
Basis Weight	g/m ² lb/yd ²	D-202	172 0.32
Density	g/cc		1.1
Tensile Strength, MD	lb/inch N/cm	D-828	20 35
Tensile Strength, CD	lb/inch N/cm	D-828	25 43
Elmendorf Tear, MD	g N	D-689	80 0.78
Elmendorf Tear, CD	g N	D-689	88 0.86
Dielectric Breakdown Strength	kV	D-149	4.8
Moisture Absorption	%	D-644	<1

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