



**KRAFT**  
**Material Data Sheet**  
 Revision 2/24/05

**Item:**

**KRAFT**, Electrical Insulating Paper

**Description:**

Cottrell Kraft- This material is made from 100% virgin fiber electrical Kraft pulp. The stock is extensively cleaned and specially refined to insure maximum purity and physical strength. No sizing, clay, fillers, or other chemical additives are used. The absence of impurities ensures that the aging characteristics will meet the most exacting requirements.

Our Kraft's are produced on a multi-ply cylinder machine, this technique allows for more bonds to form along the surface areas between plies in addition to fiber-to-fiber bonding in the machine direction. The resultant product exhibits outstanding physical strengths, which includes excellent elongation, which allows the paper to stretch without breaking. This proves especially beneficial in the fabrication of the .030" to .125" thickness, where the material must be rigid while still maintaining sufficient elongation to avoid tearing at the folds.

**Application:**

Cottrell Kraft is widely used for coil winding, barrier, core and layer insulation in transformers. It is also used in motors and other electrical applications where high dielectric and physical strengths are required

Kraft is available from .002" to .125" in rolls, sheets, or coils slit to your specifications.

**Typical Test Values:**

Thickness +/- 10%	Tear (g)	Tear (g)	Tensile (psi)	Tensile (psi)	Elongation %	Elongation %
	MD	CD	MD	CD	MD	CD
.003	57	65	11,096	10,548	1.5	4.5
.005	116	149	15,685	8,470	1.3	9.1
.007	134	197	17,873	6,913	2.3	7.5
.010	330	330	13,900	8,450	3.0	9.0
.015	495	540	13,754	6,411	2.7	4.6
.030	900	1050	13,000	6,000	3.0	4.5

Dielectric: Greater than 200 volts per mil minimum (250vpm typical)

Methanol Extractables: 0.15 - 0.20%

Density: Low: 0.90– 1.05 g/cm<sup>3</sup>      Regular: 1.15 – 1.25 g/cm<sup>3</sup>

PH 6.5 – 7.5

- Cottrell Paper Company's continuous improvement efforts may lead to changes in the above data

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