

INTRODUCING ...

ThermaVolt™ Calendered Insulation Paper

*Major Features and Benefits of the newest innovation
from Innovative Paper Technologies*

- **UL Systems Recognition* – Class 220 (R)**
- **High Inorganic Content**
- **Excellent Thermal Conductivity**
- **Good Dielectric Breakdown Resistance**
- **Reduce costs with improved processability**
- **Low Moisture Absorption**
- **Thicknesses: 3 mils (.08mm) to 10 mils (.25mm)**

* All electrical insulation systems testing per UL 1446 and IEC 61857

DESCRIPTION

ThermaVolt™ inorganic-based paper has been developed to meet the high-performance required for use in high-temperature, dry-type transformers. ThermaVolt offers good dielectric characteristics and thermal conductivity – making it especially suitable for use as interwinding insulation in strip-wound coils. ThermaVolt has been designed for use as major ground insulation in electrical insulation systems up to Class 220(R).

APPLICATIONS

High Temperature Electrical insulation for:

Dry-Type Transformers

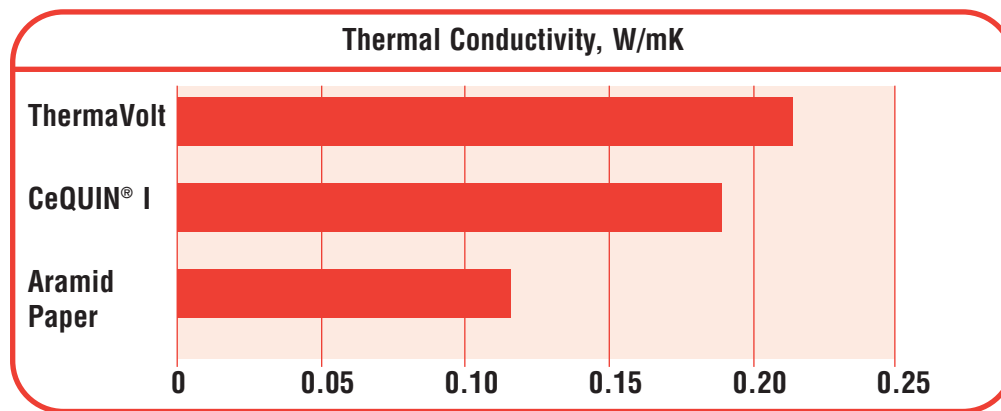
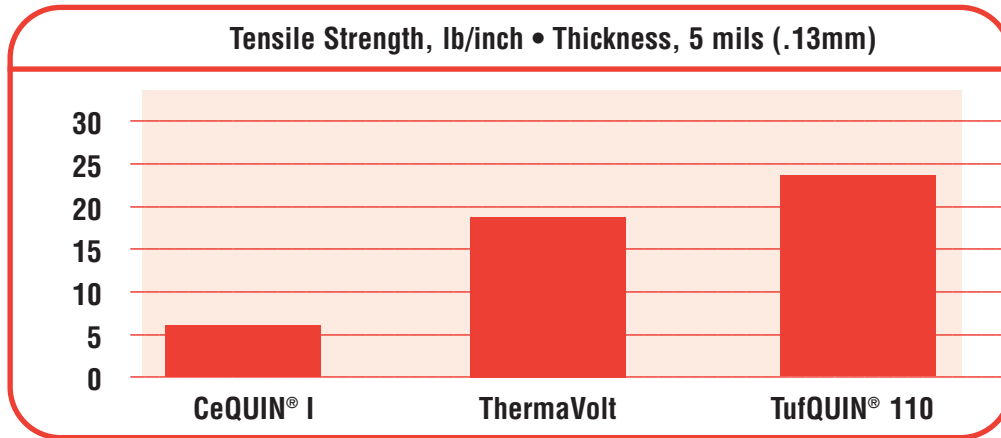
- Ground Insulation
- Phase Insulation
- Layer Insulation
- Interwinding for foil wound designs

Electromagnet Coils

ThermaVolt™ Typical Product Properties					
Nominal Thickness	mils (mm)	3 (.08)	5 (.13)	7 (.18)	10 (.25)
Basis Weight	g/m²	92	168	260	385
	lb/SY	0.17	0.31	0.48	0.71
Tensile Strength, MD	kN/m	1.1	3.2	4.4	7.0
	lb/inch	6	18	25	40
Elongation, MD	%, min	3	3	3	3
Dielectric Strength	kV	1.0	3.0	4.0	6.0
Thermal Conductivity	W/mK	0.21	0.21	0.21	0.21

The data presented here are typical average values and are not to be used for specification purposes. No warranty is given or implied. It is the responsibility of the user to determine the material's suitability for use.

ThermaVolt™ Data Sheet



ENVIRONMENTAL SAFETY AND HEALTH

ThermaVolt meets all current OSHA requirements for health and safety with normal handling and good work practices. ThermaVolt falls within the threshold limit values for chemical substances in the work environment as specified by the American Conference of Governmental Industrial Hygienists. A Material Safety Data Sheet is available upon request. Waste should be disposed of in accordance with local landfill requirements. ThermaVolt will generate products of combustion. Since these products will vary with every oven or condition, the health and safety of the worker should be assured by monitoring the work site for any toxic products of combustion.

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ISO 9001 REGISTERED FIRM

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