

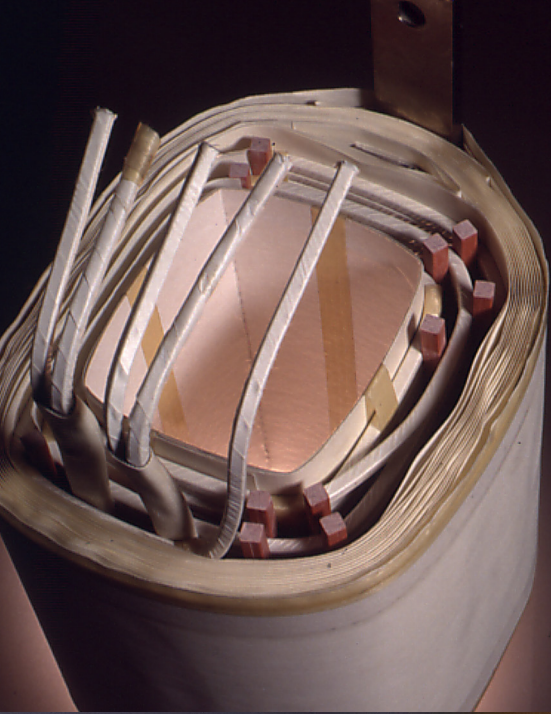


Science.
Applied to Life.™



Help improve
transformer
performance.

3M™ CeQUIN 3000 Inorganic
Insulating Paper



An alternative flexible insulation option.

3M™ CeQUIN 3000 Inorganic Insulating Paper can help you take charge of electrical design challenges and improve the performance of dry-type transformers. A modified version of 3M™ CeQUIN Inorganic Insulating Paper, CeQUIN 3000 Inorganic Insulating Paper is available in lower thickness and has higher mechanical strength — with similar dielectric strength and other benefits.



For over 20 years, manufacturers of dry-type transformers have trusted CeQUIN 3000 Inorganic Insulating Paper to help you increase your transformer efficiency without increasing size. In times of disrupted supply chains, CeQUIN 3000 Inorganic Insulating Paper may offer a readily available and cost-effective solution.

Applications

CeQUIN 3000 Inorganic Insulating Paper provides high-temperature electrical insulation for dry-type transformers, coils, and reactors:

- Ground insulation
- Phase insulation
- Layer insulation
- Interwinding insulation

Why choose 3M?



Inorganic-based insulation

Inorganic content helps improve electrical, thermal, and dimensional stability of the insulation, which can enhance the insulation reliability and processing performance.



High thermal conductivity

CeQUIN 3000 Inorganic Insulating Paper helps promote better heat dissipation, which may enable cooler-running and more efficient transformers.



High voltage endurance

CeQUIN 3000 Inorganic Insulating Paper retains a high percentage of dielectric strength, even after extended exposure to high operating temperatures. It also exhibits greater voltage endurance under continuous electrical stress, which may help improve equipment reliability.



Improved varnish absorption

Inorganic-based papers exhibit low moisture absorption even in humid environments. This gives them dimensional stability and helps reduce the need for extended drying cycles.



3M™ CeQUIN 3000 Inorganic Insulating Paper Average Properties

	ASTM Test Method	3M™ CeQUIN 3000 Paper		
Normal Thickness	D-645	0.08 mm 3 mil	0.13 mm 5 mil	0.25 mm 10 mil
Basis Weight	D-202	72 g/m ² 0.13 lb/yd ²	106 g/m ² 0.19 lb/yd ²	228 g/m ² 0.42 lb/yd ²
Tensile Strength, MD	D-828	7 lb/inch 12 N/cm	13 lb/inch 23 N/cm	35 lb/inch 61 N/cm
Elongation to Break, MD	D-828	<2%	<2%	<2%
Dielectric Breakdown Strength	D-149	0.8 kV	1.0 kV	1.5 kV
Thermal Conductivity	ASTM E-1530 (@ 180°C)	0.11	0.11	Data not available



3M™ CeQUIN 3000 Inorganic Insulating Paper is approved for use in UL 1446 systems rated through Class 220(R). UL systems recognized under 3M Innovative Paper Technologies File No. E65007.



Trust 3M.

As you face growing challenges to design more efficient transformers at lower cost, trust 3M as your supplier of insulation and tapes. Our team will work with you to help find solutions that meet your performance needs with the reliability, longevity, efficiency, and availability you require. Talk to your 3M representative today about how 3M™ Flexible Insulation Solutions can help you take charge of your transformer designs.

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