

## Electrical insulation material

### 3M™ CeQUIN™ I | FI 15111

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**Description:** 3M™ CeQUIN™ I | FI 15111 is an inorganic insulation paper.

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**Properties:** 3M™ CeQUIN™ I | FI 15111 provides excellent thermal and dielectric stability. It exhibits low moisture absorption, long-term dielectric strength and high thermal conductivity. 3M™ CeQUIN™ I | FI 15111 also has a superior varnish absorption.

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**Application:** 3M™ CeQUIN™ I | FI 15111 can be used for dry type transformers, coils and reactors as ground, barrier, layer, end-turn and inter-winding insulation. In traction motors and generators it's used as inter-winding insulation for form-wound coils, slot insulation and phase insulation. Other applications are wire and cable wraps, battery separators, capacitor and electromagnet layer insulation, switchgear insulation as well as spiral and convolute tubing.

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**Delivery forms:** 3M™ CeQUIN™ I | FI 15111 can be delivered on roll or as tape, as well as customized cut or die-cut part. Other delivery forms upon customers request.

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## 3M™ CeQUIN™ I | FI 15111

Properties	Testmethod	Unit	Value					
			0,13	0,18	0,25	0,38	0,63	0,76
Thickness	D-645	mm	0,13	0,18	0,25	0,38	0,63	0,76
Basis weight	D-202	g/m <sup>2</sup>	125	185	271	413	706	814
Density		g/cc	0,98	1,04	1,07	1,08	1,11	1,07
Tensile strength, lengthwise	D-828	N/cm	11	16	21	28	35	40
Elongation at break, lengthwise	D-828	%	<2	<2	<2	<2	<2	<2
Dielectric breakdown strength	D-149	kV	1,0	1,3	1,8	2,6	3,2	3,8
Moisture absorption	D-644	%	<1	<1	<1	<1	<1	<1

**Trademark information:** CeQUIN™ is a registered trademark of 3M™ Co., USA.

**Please note:**

The information in this data sheet is based on our current knowledge and experience. They do not disengage the fabricator and the user from own tests and inspections because of the plenty of possible effects. There is no judicial binding assurance of certain properties or of the qualification for a concrete application in our declaration. We recommend consulting us in individual cases. The acceptor of our products has to observe possible industrial property rights as well as present laws by himself.