



MANUFACTURERS OF
ELECTRICAL INSULATION MATERIALS

INSULATING COMPONENTS FOR
POWER SYSTEMS EQUIPMENT

The Gund Company, Inc
St. Louis, Missouri – USA

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MATERIAL DATA SHEET

Item: CeQuin I, II, III, V, & GESAT

Description: The CeQuin products described herein are generically an aluminum silicate, unfired ceramic-like material which have had a combination of synthetic fibers and high-temperature binders engineered into their structures.

This results in a family of products that have excellent electrical and physical characteristics for use in high-temperature electrical insulation applications. They are cost-effective materials that will outperform competitive organic materials that cost substantially more.

Availability: Fabricated Parts: The Gund Company custom fabricates insulation materials to the exact specifications and drawings of our customers

CeQuin I

Key Characteristics	Units - English (SI)	By Thickness, Mil (mm)				
		3 (0.076)	5 (0.125)	10 (0.254)	15 (0.38)	30 (0.76)
Tensile Strength, MD	lb./yard ² (kg/m ²)	4.5 (0.8)	5.7 (1.0)	15 (2.7)	19 (3.4)	25 (4.4)
Elongation, MD	%	< 2	< 2	< 2	< 2	< 2
Grammage	lb./yard ² (kg/m ²)	0.14 (0.076)	0.26 (0.14)	0.5 (0.27)	0.75 (0.41)	1.5 (0.81)
Dielectric Breakdown Strength	kV	0.6	1.3	2.3	3	5
Bursting Strength, Mullen	Psi (kPa)	4 (25)	6 (40)	13 (90)	21 (145)	28 (195)

CeQuin II

Key Characteristics	Units - English (SI)	By Thickness, Mil (mm)		
		30 (0.76)	40 (1.02)	60 (1.53)
Tensile Strength, MD	lb./yard ² (kg/m ²)	29 (5.1)	44 (7.7)	54 (9.4)
Elongation, MD	%	< 2	< 2	< 2
Grammage	lb./yard ² (kg/m ²)	1.5 (0.81)	2 (1.1)	3.3 (1.8)
Dielectric Breakdown Strength	kV	4.06	7	9
Bursting Strength, Mullen	Psi (kPa)	29 (200)	36 (250)	58 (400)

CeQuin III

Key Characteristics	Units - English (SI)	By Thickness, Mil (mm)				
		5 (0.125)	7 (0.175)	10 (0.254)	15 (0.38)	30 (0.76)
Tensile Strength, MD	lb./yard ² (kg/m ²)	6.8 (1.2)	9.1 (1.6)	16 (2.8)	19 (3.0)	29 (5.0)
Elongation, MD	%	< 2	< 2	< 2	< 2	< 2
Grammage	lb./yard ² (kg/m ²)	0.24 (0.13)	0.34 (0.18)	0.49 (0.27)	0.73 (0.4)	1.4 (0.76)
Dielectric Breakdown Strength	kV	1.2	1.5	2.2	2.7	4.8
Bursting Strength, Mullen	Psi (kPa)	9 (60)	12 (80)	19 (130)	23 (160)	49 (340)

All of the information, suggestions, and recommendations pertaining to the properties and uses of the products herein are based upon tests and data believed to be accurate; however, the final determination regarding the suitability of any material described herein for the use contemplated, the manner of such use, and whether the use infringes any patents is the sole responsibility of the user. There is no warranty, expressed or implied, including, without limitation warranty of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage.



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CeQuin V

Key Characteristics	Units - English (SI)	By Thickness, Mil (mm)				
		5 (0.125)	7 (0.175)	10 (0.254)	15 (0.38)	30 (0.76)
Tensile Strength, MD	lb./yard ² (kg/m ²)	6.8 (1.2)	9.7 (1.7)	17 (3.0)	20 (3.5)	26 (4.6)
Elongation, MD	%	< 2	< 2	< 2	< 2	< 2
Grammage	lb./yard ² (kg/m ²)	0.26 (0.14)	0.39 (0.21)	0.5 (0.27)	0.75 (0.41)	1.5 (0.81)
Dielectric Breakdown Strength	kV	1.1	1.4	2.1	2.6	4.7
Bursting Strength, Mullen	Psi (kPa)	7 (48)	10 (70)	14 (100)	22 (150)	36 (250)

CeQuin GESAT

Key Characteristics	Units - English (SI)	By Thickness, Mil (mm)		
		5.5 (0.125)	7 (0.175)	10 (0.254)
Tensile Strength, MD	lb./yard ² (kg/m ²)	9.7 (1.7)	14 (2.5)	17 (3.0)
Elongation, MD	%	< 2	< 2	< 2
Grammage	lb./yard ² (kg/m ²)	0.27 (0.15)	0.4 (0.22)	0.53 (0.29)
Dielectric Breakdown Strength	kV	1.3	2	2.8
Bursting Strength, Mullen	Psi (kPa)	11 (75)	14 (95)	18 (125)

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