



MANUFACTURERS OF
ELECTRICAL INSULATION MATERIALS
 INSULATING COMPONENTS FOR
POWER SYSTEMS EQUIPMENT

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MATERIAL DATA SHEET

Item: Calcium Silicate Grade CS-85

Description: The Grade CS-85 Calcium Silicate Fibreboard was developed to be a high temperature replacement for asbestos Transite. Compared to Transite HT, it offers the highest strength and electrical resistance combined with minimal shrinkage for applications up to and exceeding 1800 °F.

Potential applications include platen press insulation, foundry core and blow plates, induction furnace casing, electrical resistance insulation, and glass molding applications.

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|----------------------|------------------|--------------|---------------------------|------------------------|
| Availability: | Laminate Sheets: | Thickness: | English units 0.25"–3" | SI Units 6.4mm–76mm |
| | | Sheet Sizes: | 48"x96" | 122cmx244cm |

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

| Key Characteristics: | Test Method | Units - English (SI) | Typical Values |
|--------------------------------|-------------|------------------------------|-------------------------------|
| Composition | | | Non-asbestos calcium silicate |
| Density | | lbs/in ³ (g/cc) | 0.049(1.36) |
| Maximum Operating Temperature | | °F(°C) | 1,800(982) |
| Compressive Strength | ASTM D-695 | psi(MPa) | 10,300(71) |
| Modulus of Rupture | | psi(MPa) | 3,000(21) |
| Moisture Content | | % | 1 |
| Thermal Conductivity(1,000 °F) | ASTM C-177 | BTU/in/hr/ft ² °F | 2.01 |
| Dielectric Strength(flatwise) | ASTM D-149 | V/mil(kV/mm) | 61(2.38) |
| Volume Resistivity | ASTM D-150 | Ohm x cm | 4.52x10 ¹² |
| Arc Resistance | ASTM D-495 | sec | 304 |

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.