

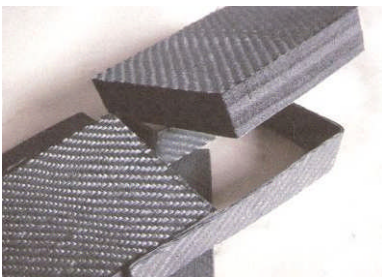
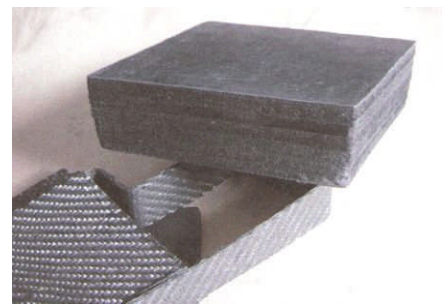
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GT-0100 Rigid Carbographite fibreboard



Ceramisis GT-0100 fibreboard is a high temperature rigid thermal insulation material used extensively in vacuum and inert atmosphere furnaces. Manufactured from woven PAN based carbon fiber, GT-0100 has excellent insulation properties.

Our fibreboard is also available with heat reflective graphite foil facing on both sides to reduce particle count and improve its insulating properties. This board is denoted GT-0101.



Where extra mechanical protection is required we can supply our fibreboard with a carbon carbon composite (CCC) facing on both sides, denoted GT-0103. It can also be supplied with one foil face and one CCC face which is denoted GT-0104.

In addition to rectangular boards we produce bespoke cylinders and discs to suit tubular furnaces. These are also available with foil facing.



For protecting exposed areas carbon carbon composite formed strips are available. These come in "L", "U" & "H" shape sections.

We also have a range of CCC nuts and threaded studding, from M6 to M20.

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Technical Specification

GT-0100 Fibreboard Properties

Bulk Density	g/cm ³	>= 0.28
Bending Strength	MPa	2.5 – 3.2
Thermal Conductivity	w/mk	0.25 – 0.30
Tensile Strength	MPa	2.8 – 6.8
Ash Content	%	<= 0.05
Carbon Content	%	>= 98
Processing Temperature	°C	1500
Thermal Expansion Coefficient	10E-6/K	0.8 – 6.9

Carbon Carbon Composite Properties

Grade: CCC01	Units	Parallel	Perpendicular
Density	g/cm ³	1.6	1.6
Shear Strength	N/mm ²	8	8
Flexural Strength	N/mm ²	176	176
Compressive Strength	N/mm ²	280	95
Tensile Strength	N/mm ²	190	190
Modulus (tensile)	kN/mm ²	80	80
CTE (20-1000 °C)	10E-6/K	0.6	8.6
Thermal Conductivity	W/mK	30	5
Electrical Resistivity	μ.ohm.m	19	19

The above data are typical average values for information only, and do not represent a formal specification.

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