

FB1800 VACUUM THERMAL INSULATION

Carbon bonded carbon fibre composite insulation is a highly refractory material capable of operating at temperatures up to 3000°C in argon. Under oxidising conditions it is inert up to 450°C. It is used extensively in the aerospace and vacuum heat treatment industries. Manufactured and outgassed to 2000°C, FB1800 base stock is very pure with impurities of <110ppm. It can be halogen purified to <2ppm impurities making it ideal for use in the semiconductor industry. It is low dusting and can be machined to fine tolerances giving tight furnace linings. This improves temperature uniformity and energy savings.

TYPICAL PROPERTIES ARE:

Density 0.16 +/- 0.02 g/cc

Porosity 85 %

Compressive strength

Parallel 1.5 MPa

Perpendicular 0.8 MPa

Flexural strength

Parallel 1.5 MPa

Perpendicular 0.9 MPa

Coefficient of Thermal Expansion

RT - 1000°C 2.7 to 3.0 x10⁻⁶ /K

1000 – 2000°C 2.5 to 2.8 x10⁻⁶ /K

Stock sizes

Foil-faced Boards	1500mm	x	1000mm	x	40mm
	1500mm	x	1000mm	x	30mm
	1500mm	x	1000mm	x	25mm
	1000mm	x	500mm	x	20mm

Other sizes, cylinders, sections and shapes available to order.
