

C-RAM™ CF

High power and high temperature microwave absorber

Description

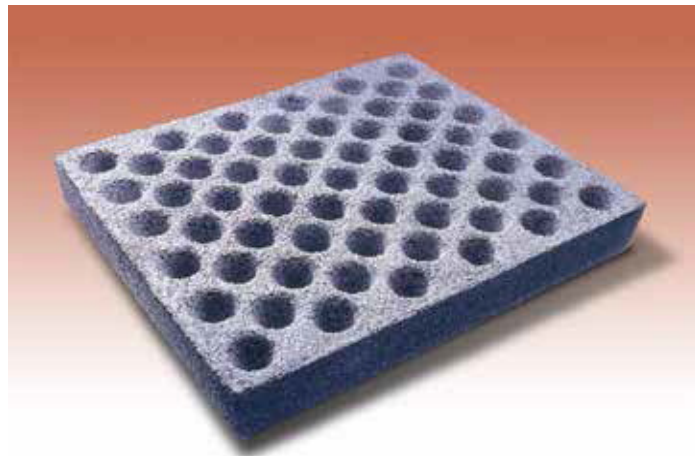
C-RAM™ CF is a broadband microwave absorbing material capable of operating in the range of -70°F to +650°F, making it ideal for many high power applications.

Power handling capability of C-RAM™ CF depends on the installation and the provisions for air circulation. Up to 10 watts/in² can be dissipated when the back of the absorber is open to permit convective air circulation. Up to 25 watts/in² can be dissipated when air at 100 ft/min is directed into the base of the conical cavities.

C-RAM™ CF consists of a matrix of lightweight unicellular glass foam coated with a lossy RF material. The backside of the foam sheet contains a pattern of conical cavities painted with a reflective high-temperature aluminum paint. Front and sides of the material are black.

C-RAM™ CF is inorganic and will not burn. The material is readily cut to size using a bandsaw.

Complex geometries can be machined on a mill. The product may be stacked as bricks into a self-supporting wall or bonded with mortar.



C-RAM™ CF is supplied in standard sheet size 12" x 18", either 2" thick (CF-2) or 3" thick (CF-3) depending on performance requirements. Material is also available in custom configurations.

Typical Properties

Frequency range: ≥ 2.5 GHz
 Service temp.: -70 to +650 °F

Typical Performance of C-RAM™ CF-2

Dimensions	Thickness	Weight	2.5GHz	3.5GHz	14GHz
12 x 18 in	2 in	3.75lbs	14dB	17dB	17dB

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