



32 Mechanic Avenue Unit 211 • Woonsocket RI 02895

Tel. 401-767-2269

Fax 401-767-2255

www.microsorbtech.com • E-mail: info@microsorbtech.com

**Product  
Bulletin**

**700-02**

**MICROSORB MTCV  
Broadband Convoluted Absorber**

**Microsorb MTCV** convoluted absorbers are designed to provide good reflectivity performance with low forward scattering characteristics at incident angles up to 60° from normal incidence at microwave and millimeter-wave frequency ranges, L-Band to W-Band frequency ranges.

**MTCV** is manufactured from lightweight urethane impregnated with specific dielectric materials to achieve the proper electrical performance at frequency. **MICROSORB MTCV** are fire-retardant and meet applicable US government and commercial flammability specifications as verified by an independent testing laboratories.

**MICROSORB MTCV** absorber's convoluted front surface creates a gradual transition from free-space to loaded substrate. The convoluted geometry gives this absorber good RF absorption performance at wide angles of incidence, and high frequency, over 100 GHz.

**Microsorb MTCV** is ideal for applications in small anechoic chambers for millimeter frequency measurements; environments requiring suppression of unwanted RF energy; treating antenna mechanical support structures, and metallic devices as wraparound absorber during testing.

**SPECIFICATIONS**

Power Handling, V/m	200
Temperature Operating, °F (°C)	100 (90)
Base Dimensions, In	24 x 24
Color	Black or Blue

**ELECTRICAL PROPERTIES**

<b>PART #</b>	<b>CV-1.5</b>	<b>CV- 3.0</b>	<b>CV- 4.0</b>
<b>Thickness, in</b>	1.5	3.0	4.0
<b>Frequency, GHz</b>	<b>Absorption at Normal Incidence</b>		
3		- 20	- 25
6	- 20	- 20	- 30
10	- 30	-30	- 40
15	- 35	- 35	- 40
30	- 45	- 45	- 50

Contact Microsorb Technical Service for technical assistance and ordering information.

**Warranty:** This information is, to the best of Microsorb Technologies knowledge, accurate as of the date indicated. This information relates only to the specific materials designated herein and is not intended for the application or use of the materials with any other materials or in any process. The information is intended as a general guide only and does not constitute a warranty or representation whatsoever and MICROSORB TECHNOLOGIES HEREBY DISCLAIMS ALL EXPRESS AND IMPLIED WARRANTIES ARISING FROM THE USER'S RELIANCE ON OR USE OF THIS INFORMATION.