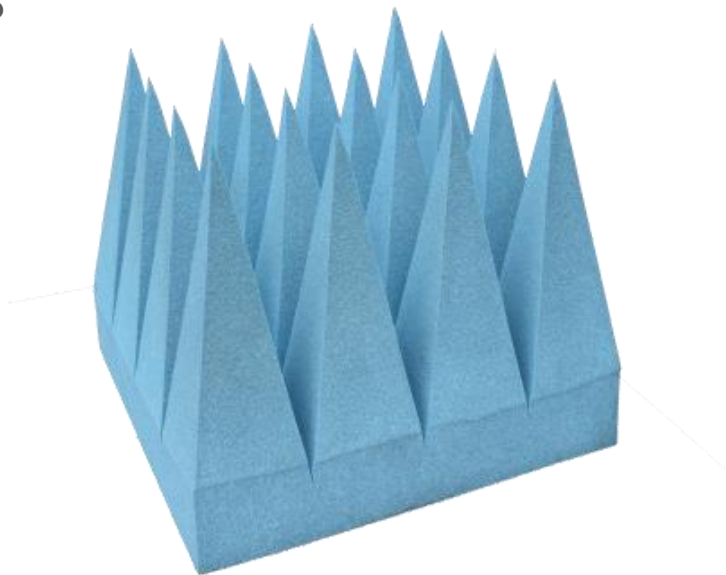


## **POLYURETHANE FOAM BASED RF MICROWAVE ABSORBERS (MICROWAVE ABSORBENT MATERIAL – PYRAMIDAL TYPE)**

### **FU-SE SERIES OF PYRAMIDAL RF MICROWAVE ABSORBERS**



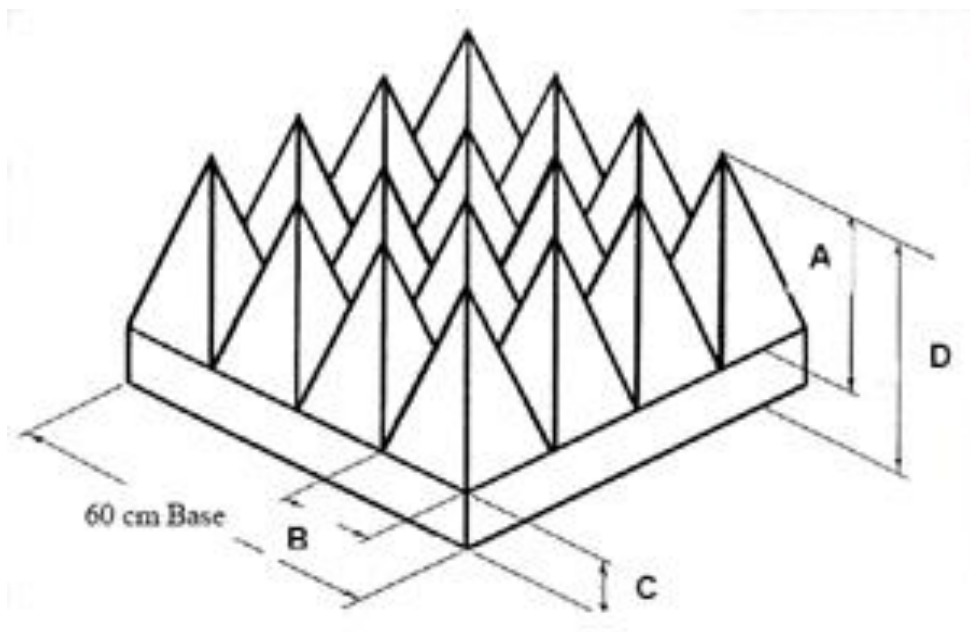
- ❖ FU-SE absorber product line is a complete range of high performance pyramidal microwave absorbers
- ❖ Available in wide range of thickness and absorbencies.
- ❖ Variety of thickness gives the chamber designer the opportunity to choose grades appropriate for specific frequencies and incidence angles.
- ❖ Constructed using low density, flexible foam, impregnated with a carbon black ferrite formulation to achieve the desired electrical performance.
- ❖ The pyramidal structure gives it the geometrical matching and the carbon dispersed gives the attenuation required at near normal incidences.
- ❖ Provide engineers with the building blocks needed in the design and construction of RF absorbing surface used in anechoic chambers, antenna assemblies and microwave measuring facilities.

# TYPICAL PERFORMANCE OF PYRAMIDAL ABSORBER

Absorber Type	Thickness (Inches )	Reflectivity (dB) for near normal incidence relative to metal surface of same size at different frequency.						
		80 MHz	250 MHz	500 MHz	1.0 GHz	3.0 GHz	10.0 GHz	18 GHz-40GHz
FU-SE 70/45/36	70/45/36	TO BE DESIGNED FOR THE GIVEN FERRITE TO MAKE HYBRID ABSORBERS AT LOW FREQUENCIES						
FU-SE-24	24	-6	-20	-35	-40	-50	-50	-50
FU-SE-18	18			-30	-37	-45	-50	-50
FU-SE-12	12				-30	-40	-50	-50
FU-SE-8	8				-25	-35	-50	-50
FU-SE-4	4					-25	-40	-50

## FEATURES:

- ❖ Absorption over a wide frequency range.
- ❖ Long product life.
- ❖ High performance, up to -50 dB attenuation.
- ❖ These absorbers are supplied with a fire retardant finish.
- ❖ RoHS Compliant.



Absorber Type	Pyramid Height, A	Pyramid Width, B	Base Height, C	Total Absorber Height, D	Number of Pyramids per Absorber
FU-SE-4	3"	2"	1"	4"	144
FU-SE-8	6"	3"	2"	8"	64
FU-SE-12	10"	4"	2"	12"	36
FU-SE-18	15"	6"	3"	18"	16
FU-SE-24	21"	8"	3"	24"	9

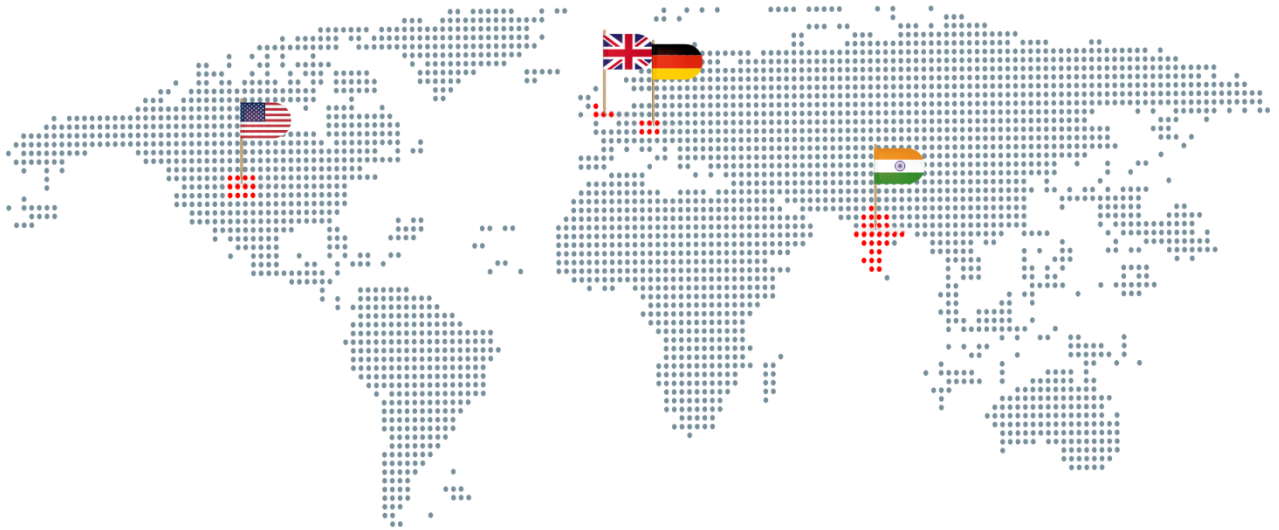
## MATERIAL PROPERTIES :

- ❖ Color: As Desired, generally available in blue color.
- ❖ Dimensions: 60 cm X 60 cm
- ❖ Chemical Composition: Carbon ferrite impregnated polyurethane foam
- ❖ Maximum service temperature: 90 degree Centigrade
- ❖ Power handling capacity: 0.5 W/in<sup>2</sup>
- ❖ Fire Retardancy: Passes NRL-8093, USA test 1, 2 & 3 With Zero Halogen Means.
- ❖ Our foam absorbers are fire retardant with zero halogen means thereby avoid formation of toxic gases like HCl / HBr and poisonous gases like phosgene.

## AREAS OF APPLICATION:

- ❖ Broadband absorbers suitable for in-door measurements.
- ❖ Used in making microwave anechoic chambers for performing measurements like RCS, Antenna Measurements etc.
- ❖ Used in making Moving screens for hiding the areas of maximum reflections
- ❖ Used for obtaining Quiet Zones in very wide frequency range

# GLOBAL PRESENCE



**LASER CUTTING** RF & Microwave  
**MARKING** Medical Devices  
**WELDING** Hi-Tech Software  
 Diamond Processing  
 Renewable Energy  
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**DEFENCE & AEROSPACE**  
**MICRO MACHINING**

## SLTL'S STRENGTH

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<p><b>25000+</b></p> <p>Installations</p>	<p><b>ISO</b></p> <p>9001-2015</p>	<p><b>29+</b></p> <p>Patents</p>	<p><b>33+</b></p> <p>Awards</p>

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