

POLYURETHANE FOAM BASED WEDGE MICROWAVE ABSORBERS (MICROWAVE ABSORBENT MATERIAL – WEDGE TYPE)



FEATURES:

- ❖ Absorption over a wide frequency range.
- ❖ Long product life.
- ❖ High performance, up to -45 dB reflection loss at grazing incidences.
- ❖ These absorbers are supplied with a fire retardant finish.
- ❖ **RoHS** Compliant.

FW-SE SERIES OF WEDGE MICROWAVE ABSORBERS:

- ❖ FW-SE absorber is a complete range of high performance wedge microwave absorbers having approximated same properties at grazing incidences as our FU-SE Series-Pyramidal Microwave Absorbers at near normal incidences.
- ❖ Constructed using low density, flexible foam, impregnated with a carbon black, ferrite formulation to achieve the desired electric performance.
- ❖ At higher angle of incidences backscatter is significantly reduced.
- ❖ 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.

TYPICAL PERFORMANCE OF WEDGE MICROWAVE ABSORBER:

- ❖ Reflection Loss (dB) of wedge type (FW-SE) at normal incidence is 3 dB to 5 dB down in comparison of our pyramidal microwave absorber (FU-SE).

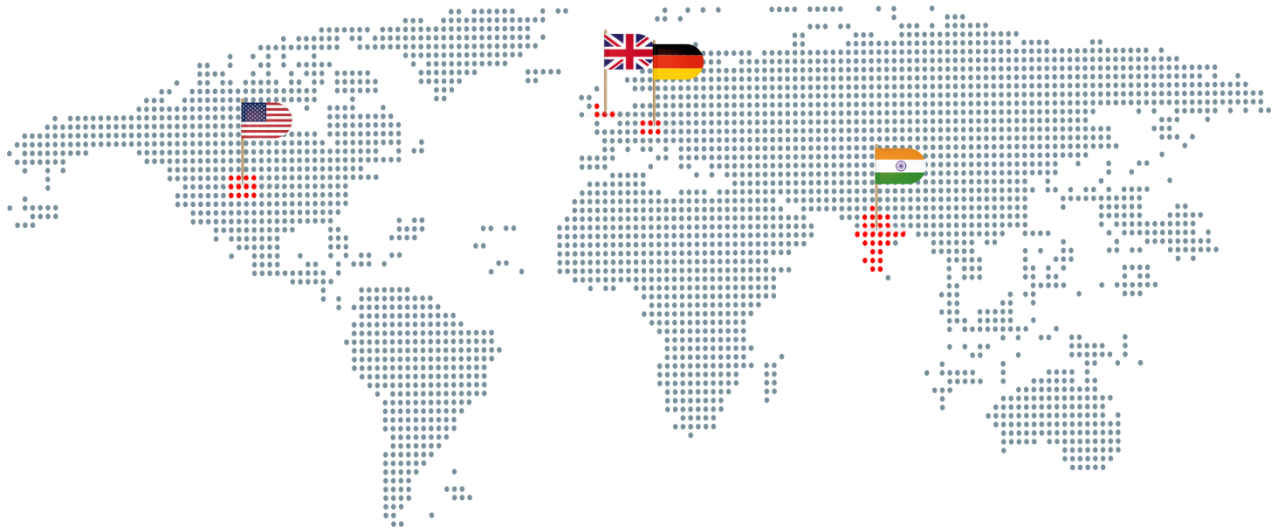
MATERIAL PROPERTIES:

- ❖ 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/in².
- ❖ Fire Retardency : 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 chamber where it is desirable to have the energy guided into a terminating wall, such as in tapered chambers and in compact ranges designed for RCS measurement.
- ❖ Used in making Moving screens for hiding the areas of maximum reflections.
- ❖ Used for obtaining Quiet Zones in very wide frequency range.

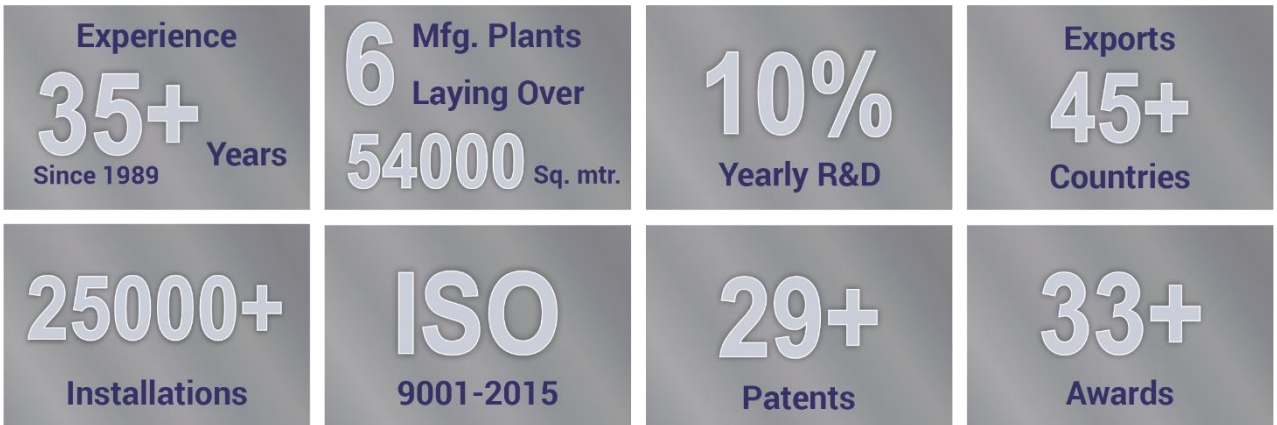
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SLTL'S STRENGTH



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