



## 3670 - PU foam based wedge absorbers

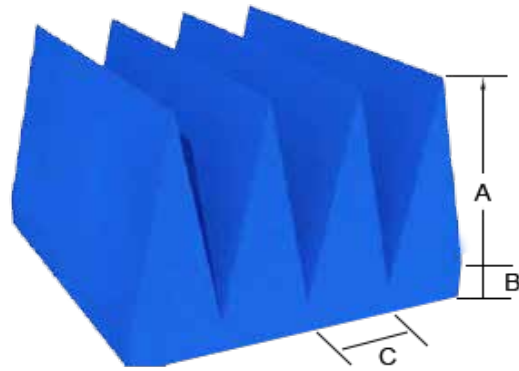


PU foam based wedge absorbers has the properties similar to the pyramid absorbers with same height, it also has excellent performance in 100MHz-110GHz. It is mainly applied in large compact anechoic chamber and tapered anechoic chambers, the main advantage is to reduce the back scattering of pyramid absorbers and obtain higher quietness of quiet zone.

### Characteristics

- Such absorbers have a wedge-shaped appearance, with blue color (it can be selected as request)
- Pliable and flexible, the pyramids won't bend in long-term use, and its absorbing properties won't be changed within 10 years.
- Oxygen index  $\geq 29\%$  (GB/T2406-93), which belongs to flame retardant B2 level (GB8624-1997)
- Good environmental performance, all raw materials can meet the environmental requirements, no volatile, no smell and non-toxic.  
Working conditions: general indoor application
  - Long-time working temperature:  $-50^{\circ}\text{C} \sim 90^{\circ}\text{C}$
  - Short-time working temperature:  $-100^{\circ}\text{C} \sim 120^{\circ}\text{C}$
  - Relative humidity:  $55\% \pm 15\%$
  - Frequency range: 30MHz  $\sim$  110GHz
- Installation method: it generally use an environmental protective adhesive to paste the absorbers on the shield body; when the absorbers' height is below 500mm, Velcro installation can be applied; furthermore, we can also adopt the fasteners to install the absorbers, which would facilitate the replacement of absorbers and the relocation of chambers.

### Schematic diagram of PU foam based wedge absorbers



### Product specification and part numbers

Part number	Base size (mm x mm)	Pyramid quantity per unit	Unit size A x C x B (mm x mm x mm)	Standard weight (kg/m <sup>2</sup> )
3670-200		6	200 x 10 x 5	8
3670-300	600 x 600	6	300 x 10 x 7	10
3670-495		3	495 x 20 x 7.5	15
3670-700	600x400	2	700 x 20 x 10	24

### Reflection loss / Shielding performance

Part number	Reflection loss under vertical incidence (-dB @ GHz)						Power handling capacity kW/m <sup>2</sup>	
	0.5	1	3	6	10	18		40
3670-200		25	32	35	42	48	50	1.5
3670-300		30	38	45	48	50	50	1.5
3670-495	20	35	43	50	50	50	50	1.5
3670-700	25	40	50	50	50	50	50	1.5

These values are measured under laboratory conditions. In your situation results may differ, please read our Guarantee

### Please note:

- For the data below 500MHz, it is obtained by low-frequency coaxial test method (GJB5239-2004); while for the data above 1GHz, it is obtained by far-field RCS test method (GJB2038A-2011)
- The performance data listed in the above table is the guaranteed data, and the measured data would be equal to or better than the guaranteed data.
- The bold part number is a stock item and can be delivered immediately
- Certification: CE ROHS

### Order information

When you want to order 3670 PU foam based wedge absorbers please specify the part number as follow:

Part number	Height (mm)
3670	200

Revision date: 17-5-2016