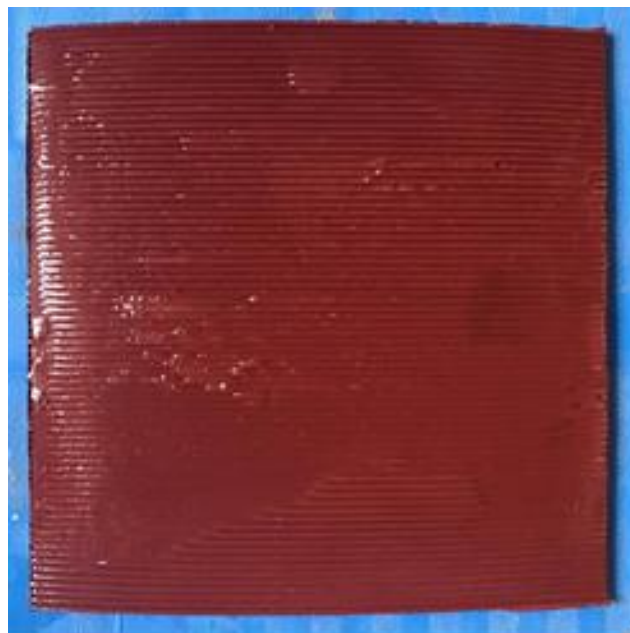


## Ultrasound Absorbing Liner (UA-1)

### UA-1 Type Broadband High-Efficiency Ultrasonic Absorbing Inner Liner

The broadband high-efficiency ultrasonic absorbing inner liner was invented by Professor Niu Fengqi from the Institute of Acoustics, Chinese Academy of Sciences. It is a national patent product and is unique in the world so far. This product is cast using a rubber-based composite material and has the shape shown in the figure below. The typical product is a 150mm×150mm plate, with a thickness (from the bottom to the tip of the edge) of approximately 5mm. When used, the edge surface faces the water, and the smooth surface on the back is for gluing. Its echo reduction in the 0.5-5MHz frequency band when incident directly into the water is up to 20-35dB.



Test frequency (MHz)	Acoustic absorptivity	Echo reduction(dB)
0.540	99.89%	29.4
2.040	99.96%	34.5
4.640	99.98%	38.1

### Absorption target for HIFU acoustic power measurement (UA-2)

The acoustic power of HIFU is measured using an absorption target. This product is specially designed and manufactured considering this application. Its appearance is as shown in the following figure. The basic dimensions are 150mm\*150mm\*8mm. At 1MHz, the echo reduction is greater than 26dB, and the absorption coefficient is greater than 99%.