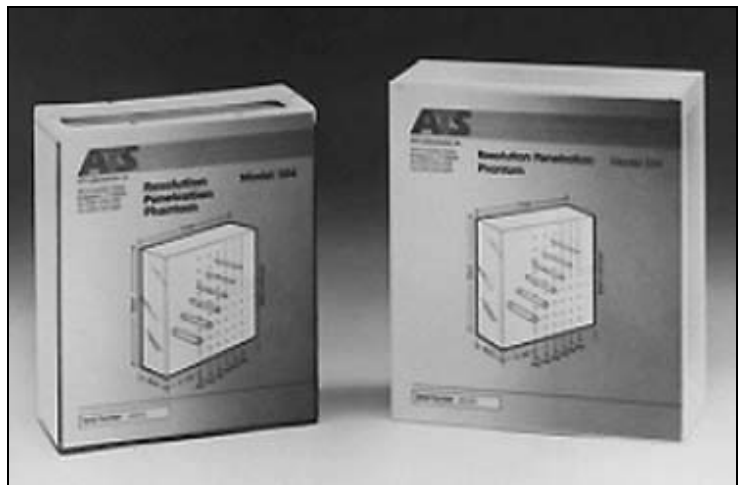




Model 504
Model 534
Resolution – Penetration
Phantoms



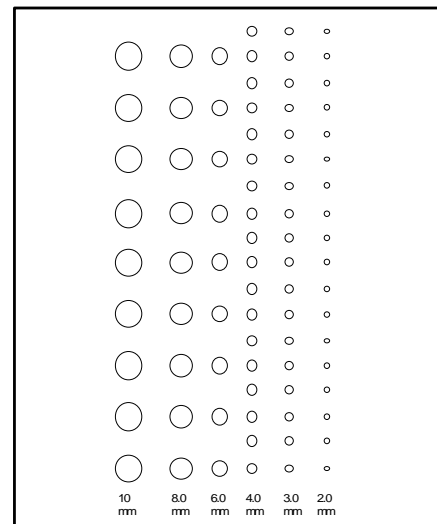
Product Description

Models 534 & 504 tissue-mimicking (TM) phantom are designed to evaluate the performance of diagnostic ultrasound imaging systems. These phantoms contain 81 anechoic, cylindrical target structures of varying sizes. The targets are positioned in-line vertically, to permit an entire target group to be displayed in one view. Due to the acoustic similarity of the background material and the anechoic targets, artifacts caused by distortion, shadowing or enhancement have been eliminated.

These models differ in the composition of the TM material used to produce these phantoms. The Model 504 is manufactured using a hydrogel TM material and has a warranty of one-year. Whereas, the Model 534 utilizes a rubber-based TM material with a **Lifetime warranty**.

Test Performed

- Sensitivity
- Focal Zone
- Functional Resolution
- Image Uniformity



SPECIFICATIONS

Model 504

General Overall Dimensions: 18.5 x 22 x 8 cm
Scan Surfaces: 1
Scan Surface Dimensions: 16.5 x 5.5 cm
Weight: 3.2 Kg
Tissue Mimicking Material: Hydrogel
Freezing Point: 0° C
Melting Point: 49° C
Speed of Sound: 1540 m/s @ 23° C
Attenuation Coefficient: 0.5 db/cm/MHz

Anechoic Target Structures Type: Non-echogenic, cylindrical
Diameters: 2, 3, 4, 6, 8, 10 mm
Depth: 1 – 18 cm

Model 534

General Overall Dimensions: 20.3 x 23.3 x 9.5 cm
Scan Surfaces: 4
Scan Surface Dimensions: 14.5 x 7.5 cm
Scan Surface Dimensions: 17.5 x 7.5 cm
Weight: 3.1 Kg
Tissue Mimicking Material : Urethane rubber
Freezing Point: <-40°C
Melting Point: >100°C
Attenuation Coefficient: 0.5 dB/cm/MHz ± 5.0%
Speed of Sound: 1450 m/s ±1.0% at 23°

Anechoic Target Structures Type: Non-echogenic, cylindrical
Diameters: 2, 3, 4, 6, 8, 10 mm
Depth: 1 – 18 cm