Spherical Lesion Phantom

GAMMEX 408 LE

Ultrasound imagine quality in three dimensions: Axial, lateral and elevational.

The Spherical Lesion Phantom Gammex 408 LE provides a unique way of testing resolution performance of ultrasound scanners. The Spherical Lesion Phantom contains 2 mm and 4 mm diameter tissue mimicking spherical lesions which lie in a single plane at the center of the phantom. Axial, lateral and elevational resolution are accounted for simultaneously and equally for all types of ultrasound systems and configurations. In the 2 mm section, there are 105 anechoic spheres at 0.5 cm depth intervals and in the 4 mm section there are 211 anechoic spheres at 0.75 cm depth intervals.

The Spherical Lesion Phantom Gammex 408 LE incorporates our Tissue Mimicking (TM) gel which provides a smoother background texture than conventional tissue mimmicking gels. The Gammex gel allows production of lesions with negligible echogenicity while producing no distal enhancement or shadowing inherent with other gel forms. The TM gel is also optimized for use with tissue harmonics imaging technology.

In addition, the Gammex 408 LE has a new composite film scanning surface that has improved transmission properties so more of the ultrasonic beam can be transmitted and received.

Optional accessories for the Gammex line of Ultrasound phantoms include Soft Foam-Lined Carrying Case, Rigid Case, or the Precision Ultrasound Transducer Guide.

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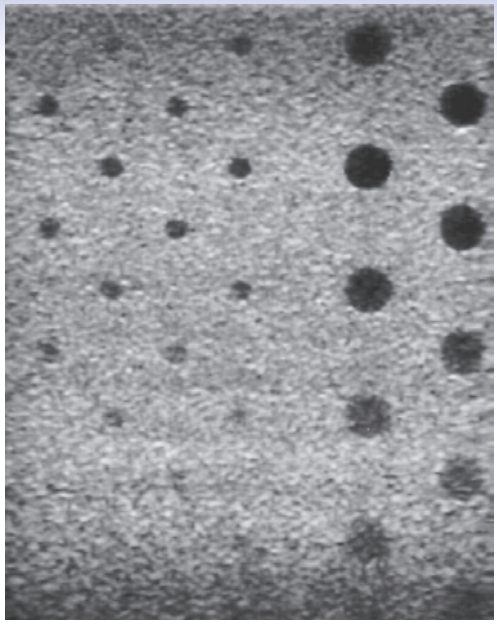
GAMMEX 408 LE

ULTRASOUND

continued from front...



This ultrasound image demonstrates the anechoic spheres contained in the Spherical Lesion Phantom Gammex 408 LE. Note the well defined 2 mm and 4 mm targets.

SPECIFICATIONS

High Resolution Tissue Mimicking Gel
Speed of sound . . 1540 ±10 m/s at 22°C
Attenuation . . . . 0.5 or 0.7 ±0.05 dB/cm/MHz

Anechoic Spherical Lesions
Size. . . . . 4 mm in a plane 0.5 to 16 cm
2 mm in a plane 0.5 to 10.5 cm
Contrast. . . . . -30 dB relative to background

Construction
Scanning
surface . . . . . Composite Film
Walls . . . . . Extruded ABS
Dimensions . . . . . 23.2x8.25x18.5 cm
(9.25x3.25x7.25 in)
Weight. . . . . 2.8 kg (6 lbs 5 oz)
All acoustic measurements at 4.5 MHz, 22°C