



Precision Multi-Purpose Grey Scale Phantom

Gammex 403GS

The Precision Multi-Purpose Grey Scale Phantom Gammex 403GS offers advanced technology for measuring the image quality of high resolution ultrasound systems. It provides grey scale targets for monitoring the contrast and temporal resolution and distinguishing different intensities of brightness and border delineation capability of the ultrasound system.

The Gammex 403GS Precision Multi-Purpose Phantom offers the latest in technological design providing the sonographer with the following advanced features:

- axial and lateral resolution targets at depths of 3, 8 and 14 cm for precise resolution measurements of any ultrasound system
- anechoic cysts of 1 cm and 2, 4 and 6 mm diameter
- -6, +6 and +12 dB grey scale targets
- convertible water dam for gel or water coupled scanning
- integral cover to protect scanning surface
- durable ergonomic design for ease of handling
- available in 0.5 and 0.7 dB/cm/MHz attenuation
- optional foam-lined carrying case

SPECIFICATIONS

Tissue Mimicking Material:	Pin Targets
Speed of sound 1540 ±10m/s	Diameter of nylon lines 0.1 mm (0.004 in.)
Attenuation 0.5 or 0.7 ±0.05 dB/cm/MHz	Vertical spacing 20 mm at 2 to 16 cm deep
Targets:	Horiz. spacing ... 30 mm at 2 and 12 cm deep
Grey Scale Targets	Axial resolution 3, 8 and 14 cm
Contrast	Container:
..... -6, +6 and +12 dB relative to background	Walls Extruded ABS
Diameter 10 mm	Scanning surface
Speed of sound 1540 ±10m/s 0.4 mm (0.015 in) polyurethane
Attenuation Same as background	Size 23.2 x 8.25 x 18.5 cm
Anechoic Cysts (9.25 x 3.25 x 7.25 in.)
Diameters 2, 4, 6 and 10 mm	Weight 2.8 kg (6 lbs 2.5 oz)
Speed of sound 1540 ±10m/s	Options
Attenuation 0.05 ±0.01 dB/cm/MHz	Foam lined carrying case ... Gammex 082-403
	All acoustic measurements at 4.5 MHz, 22 °C



Precision Small Parts Grey Scale Phantom

Gammex 404GS

The Precision Small Parts Grey Scale Phantom Gammex 404GS offers advanced technology for measuring image quality of small parts and intra-cavity ultrasound scanning systems. A 7 mm anechoic cyst is used to evaluate system noise and grey scale targets are used to measure contrast, temporal resolution and system linearity.

This precision small parts phantom provides the sonographer with the following features and options:

- axial and lateral resolution targets at 1, 3.5 and 6 cm for precise resolution measurements
- low scatter cysts of 1, 2, and 4 mm diameters
- 7 mm grey scale targets of -6, +6 and +12 dB relative to background material
- attenuation coefficients of 0.5 or 0.7 dB/cm/MHz
- convertible water dam for gel or water coupled scanning
- integral cover to protect scanning surface
- durable ergonomic design for handling ease
- optional foam-lined carrying case

SPECIFICATIONS

Tissue Mimicking Material	Pin Targets
Speed of sound 1540 ±10m/s	Diameter of nylon lines 0.1 mm (0.004 in.)
Attenuation 0.5 or 0.7 ±0.05 dB/cm/MHz	Vertical spacing 5 mm at 1 to 9 cm deep
Targets:	Horiz. spacing 10mm at 1 and 5cm deep
Grey Scale Targets	Container
Contrast	Walls Extruded ABS
..... -6, +6 and +12 dB relative to background	Scanning surface
Diameter 7 mm 0.4 mm (0.015 in) polyurethane
Speed of sound 1540 ±10m/s	Size 15.2 x 8.25 x 18.5 cm
Attenuation 0.5 or 0.7 ±0.05 dB/cm/MHz (6 x 3.25 x 7.25 in.)
Anechoic Cysts	Weight 1.8 kg (4 lbs.)
Diameters 1, 2, 4 and 7 mm	Option
Speed of sound 1540 ±10m/s	Foam lined carrying case ... Gammex 082-403
Attenuation 0.05 ±0.01 dB/cm/MHz	All acoustic measurements at 4.5 MHz, 22 °C