Technical Data

RaySafe Pro-Mam Accreditation Phantom

The Mammography Accreditation Phantom is designed to meet the Mammography Quality Standards Act (MQSA) and the American College of Radiology (ACR) Quality Control Programs for diagnostic testing.

Key features

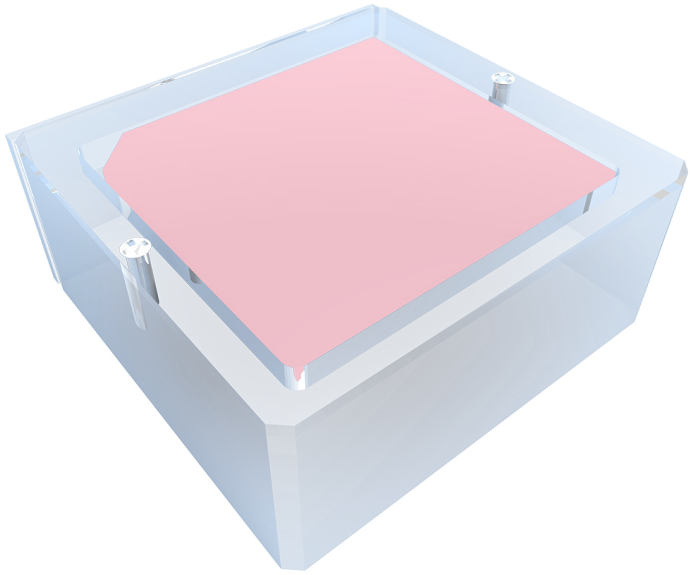
- Complies with ACR phantom specifications and accreditation program/quality control (QC) requirements*
- Tests the performance of a mammographic system and its ability to image small structures similar to those found clinically
- Contains test objects to simulate indications of breast cancer, punctuate calcifications, tissue fibrillar extensions in adipose tissue, and tumorlike masses
- Ideal for monitoring the overall performance of your mammographic imaging system
- Equivalent in X-ray attenuation to a 4.2 cm compressed "average" breast
- Helps ensure optimum image quality and peak performance of the mammographic system
- Essential for MQSA compliance*

Detect imaging changes

This phantom is intended for use as an integral part of the Mammographic Quality Control Program.

It helps you to quickly and easily perform routine testing to evaluate the overall imaging performance of your mammographic system.

Regular quality control performed with the



RaySafe Pro Mam Accreditation Phantom allows you to detect any changes in imaging quality, enabling you to maintain the system so it remains at peak performance.

This phantom was designed to test the performance of a mammographic system by a quantitative evaluation of the system's ability to image small structures, important in the early detection of breast cancer.

Objects within the phantom simulate fibrous lesions, microcalcifications, and tumor masses. Sizes range from what should be visible on any system, to objects which would be challenging to detect even for the best mammography units.

** In the process of being accredited.*

Specifications

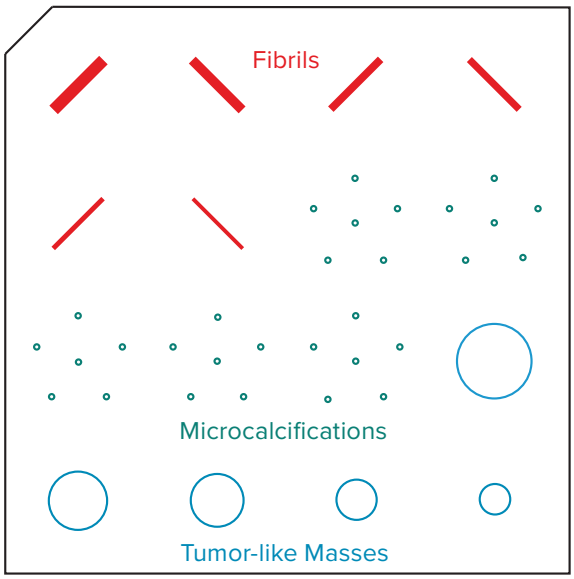
Phantom body	
Material	Acrylic (PMMA)
Dimensions and weight	
Overall dimension (h x w x d)	44 x 102 x 108 mm (1.7 x 4.0 x 4.3 in.)
Cut-out dimension (h x w x d)	7.25 x 81.5 x 82 mm (0.29 x 3.21 x 3.23 in.)
Simulates	42 mm (1.7 in.) compressed breast of average glandular/adipose composition
Weight	556 g (1.23 lb)
Wax insert test elements	
Thickness	7.25 mm (0.29 in.)
Nylon fiber diameters (6)	1.56, 1.12, 0.89, 0.75, 0.54, 0.40 mm (0.061, 0.044, 0.035, 0.030, 0.021, 0.016 in.)
Aluminum oxide microcalcifications specks (5)	0.54, 0.40, 0.32, 0.24, 0.16 mm (0.021, 0.016, 0.013, 0.0094, 0.0063 in.)
Tumor like masses (thickness) (5)	2.00, 1.00, 0.75, 0.50, 0.25 mm (0.079, 0.039, 0.030, 0.020, 0.010 in.)
Standards	
Compliance	Complies with, but not yet accredited: • ACR Mammography Accreditation Program Requirements • ACR Stereotactic Breast Biopsy Accreditation Program

Note: The phantom is made of a 7.25 mm (0.29 in.) wax block insert containing 16 sets of test objects, a 33.75 mm (1.33 in.) thick acrylic base, and a 3 mm (0.12 in.) thick cover.

The phantom approximates a compressed breast of average glandular/adipose composition.

Included in the wax insert are five aluminum-oxide (Al_2O_3) specks that simulate microcalcifications. Six different nylon fibers simulate fibrous structures and five different size lens-shaped masses simulate tumors.

Each phantom includes a 4 mm (0.16 in.) thick, Ø 10 mm (0.39 in.), 6 g (0.2 oz) acrylic contrast test disk, and a magnifying glass.



Ordering information

Model 18-220-01 RaySafe Pro-Mam Accreditation Phantom. Includes a comfortable carrying case.

RaySafe

We empower our everyday heroes to focus only on protecting lives.

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