

# 18-220 Mammographic Accreditation phantom

## Technical Data

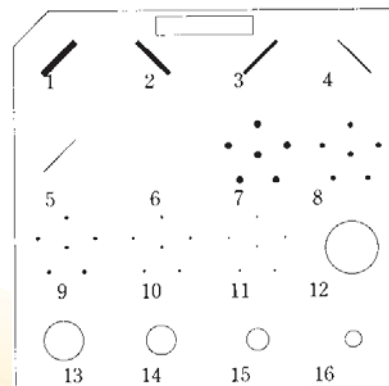
### Essential Mammo QC

The Mammographic Accreditation Phantom will assist you in complying with MQSA and the American College of Radiology (ACR) Quality Control Programs. This phantom is intended for use as an integral part of the Mammographic Quality Control Program, and when used to perform routine mammographic QC, it will help you quickly, easily, and accurately evaluate the overall imaging performance of your mammographic system. This phantom will detect imaging changes so you can make the necessary corrections in order to maintain your system at peak performance.

### Applications

The Mammographic Accreditation Phantom was designed to test the performance of a mammographic system by a quantitative evaluation of the system's ability to image small structures similar to those found clinically. Objects within the phantom simulate calcifications, fibrous calcifications in ducts, and tumor masses.

The phantom is also designed to determine if a mammographic system can detect small structures that are important in the early detection of breast cancer. Test objects within the phantom range in size from those that should be visible on any system, to objects that will be difficult to see even on the best mammographic system.



### Key features:

- Complies with ACR phantom specifications and QC requirements
- Helps ensure optimum image quality and peak performance of the mammographic system
- Essential for MQSA compliance
- 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, x-ray generator, film processor, and screen-film combination
- Equivalent in x-ray attenuation to a 4.5 cm compressed "average" breast

## Technical specifications

Phantom body	
Material	Acrylic
Dimensions	
Overall	10.15 (w) x 10.8 (d) x 4.4 cm (h)
Acrylic base	1.375 in thick (3.4 cm)
Cover	0.128 in thick (3 mm)
Acrylic contrast test disk	1 cm Ø x 4 mm
Weight	1.2 lb (0.55 kg)

**Note:** The 4.4 cm-thick phantom is made of a 7 mm wax block insert containing 16 sets of test objects, a 3.4 cm thick acrylic base, and a 3 mm thick cover. The phantom approximates a 4.5 cm compressed breast of average glandular/adipose composition. Included in the wax insert are aluminum-oxide (Al<sub>2</sub>O<sub>3</sub>) 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 x 1 cm diameter acrylic contrast test disk, faxitron x-ray image, and magnifying glass

### Wax insert

Nylon fibers	Al2O3 Specks	Masses (Thickness)
1) 1.56 mm	7) 0.54 mm	12) 2.00 mm
2) 1.12 mm	8) 0.40 mm	13) 1.00 mm
3) 0.89 mm	9) 0.32 mm	14) 0.75 mm
4) 0.75mm	10) 0.24 mm	15) 0.50 mm
5) 0.54 mm	11) 0.16 mm	
6) 0.40 mm		

## Ordering information

### Models/descriptions

**18-220** Mammographic Accreditation Phantom, includes acrylic contrast test disk, faxitron x-ray image, magnifying glass

### Optional accessories

**18-237** Acrylic plates (2)  
**18-205** Acrylic contrast test disk  
**89-220** Carrying case

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