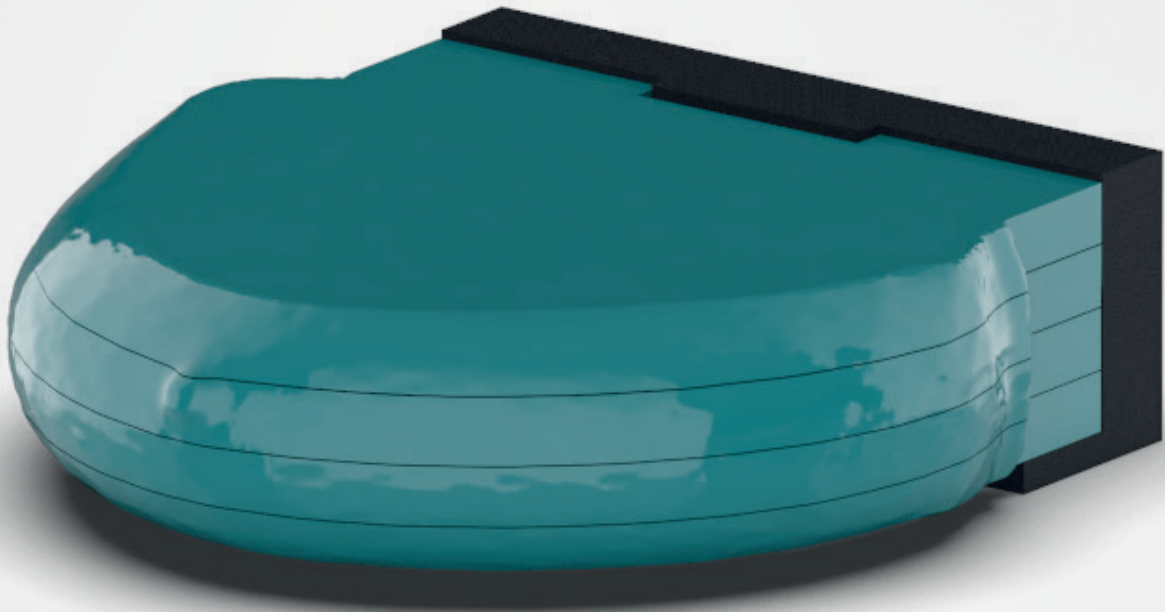
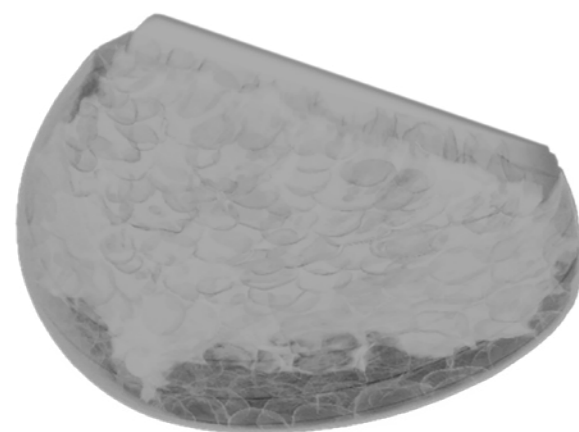


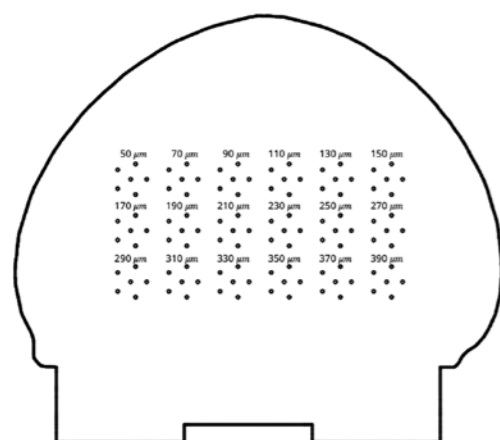
Breast Phantom

for Mammography and Breast Tomosynthesis

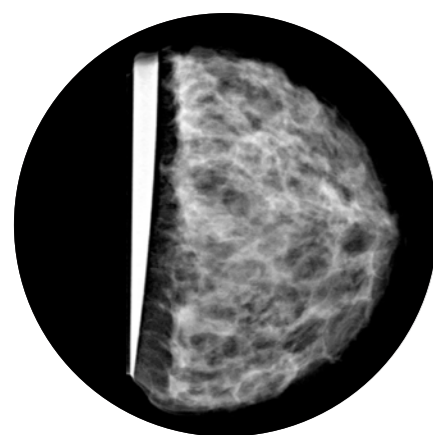




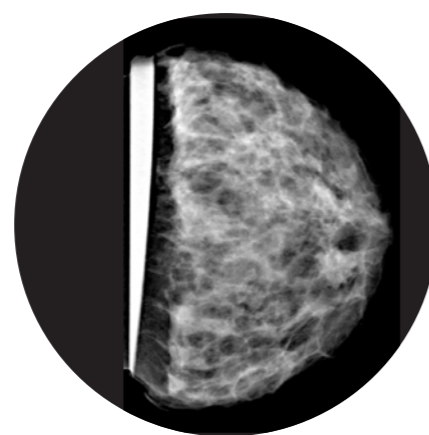
Phantom composed of 4 slabs simulating glandular and adipose tissue.



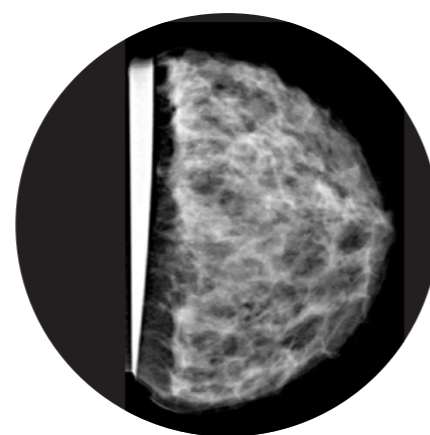
Drawing indicates diameter of microcalcifications of the insertable calcification pattern.



Breast phantom.



Tumor slabs inserted.



Calcification pattern inserted.

Breast phantom with adipose and glandular tissue. This breast phantom was designed to simulate breast imaging in mammography and breast tomosynthesis. It represents a compressed breast of 4 cm thickness that can be placed under the compression paddle. This phantom provides a realistic simulation of breast imaging.

The phantom is manufactured from virtual data* containing adipose and glandular tissue. The models are handmade unique piece, which can differ slightly in size and design. The phantom can be provided as one-piece anthropomorphic phantom or in a sectional design. Dosimeter openings and pathologic features can be included upon request.

Diagnostic features:

Realistic simulation of glandular and adipose tissue.

Insertable calcification pattern:

- Pattern thickness: 0.1 mm
- Calcification diameter: 50 to 390 µm
- Replacement slabs containing a spiculated mass
- Mass integrated in 2 additional slabs for replacement of the 2 central slabs
- Mass size: approx. 16 x 16 x 17 mm

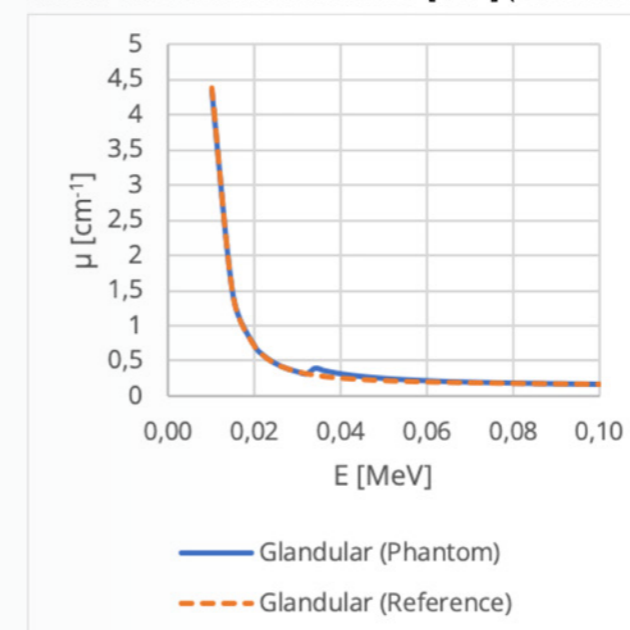
Specifications

Size: approx. 15 x 11 x 4 cm
 Weight: approx. 0.59 kg
 Components: 4 slabs of 9 mm thickness
 Positioning aid: Magnetic mount
 Base material: Cellulose-polymer composite

Attenuation properties

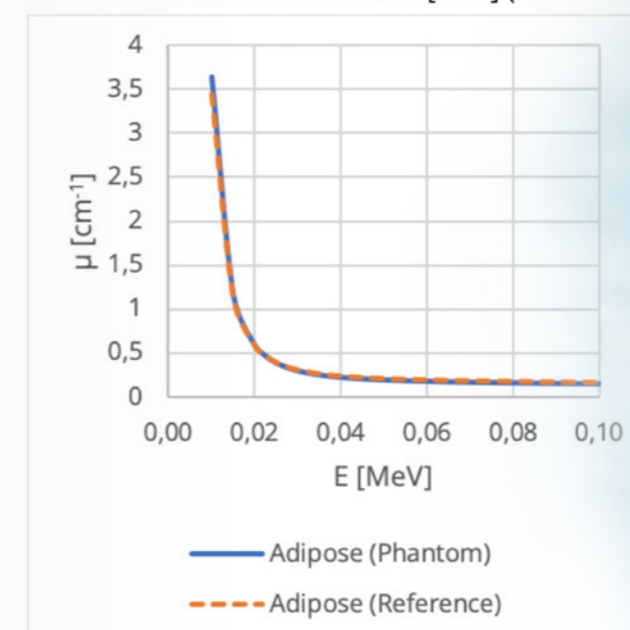
Glandular Tissue

Linear attenuation coefficients [cm^{-1}] (calculated)



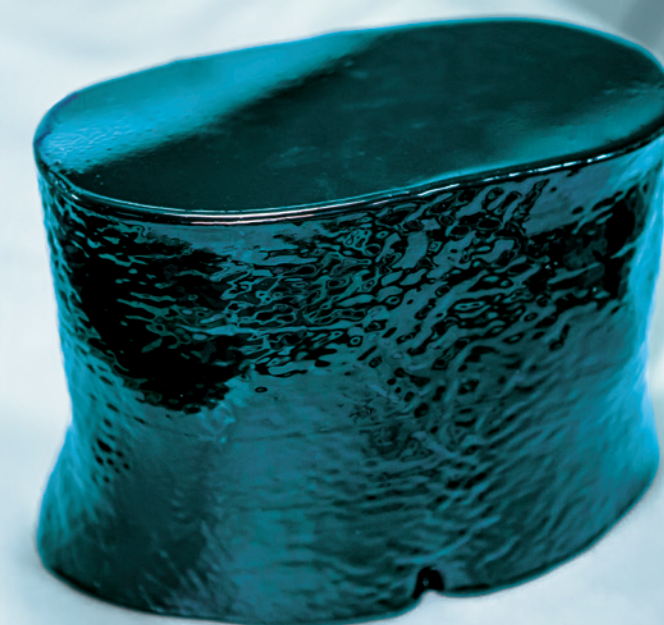
Adipose Tissue

Linear attenuation coefficients [cm^{-1}] (calculated)



General indications

- The phantom is made of a cellulose-polymer composite material with properties similar to hardwood. If handled carefully, it will last a long time.
- The phantom is coated with a protective layer. If the protective layer is undamaged, the phantom can be cleaned using a damp cloth (water or mild detergent).
- Protect from direct sunlight.
- Maintain a storage temperature of 10 °C to 30°C. If the phantom is exposed to temperatures below -10 °C or above 45 °C, it can be severely damaged.
- The phantom is not equipped for dose measurements with dosimeters and it is not suited for material characterization with dual energy CT.
- The phantom is not certified as medical device.
- Air voids are filled with cellulose-polymer composite of approx. -160 HU.
- Handle with care to prevent injury or damage.



Tissue Reference: Woodard HQ, White DR. The composition of body tissues. Br J Radiol. 1986.

EXPERTS IN MEDICAL EDUCATION

Erlor-Zimmer Medical GmbH

Hauptstraße 27 · 77886 Lauf · Germany

T +49 7841 / 67191-0 · F +49 07841 / 67191-99

info@erler-zimmer.de

www.erler-zimmer.de

Follow us!

