Article Number
PX0203422

Made in Germany

BREAST CALCIFICATIONS – PENTAGONAL CLUSTER

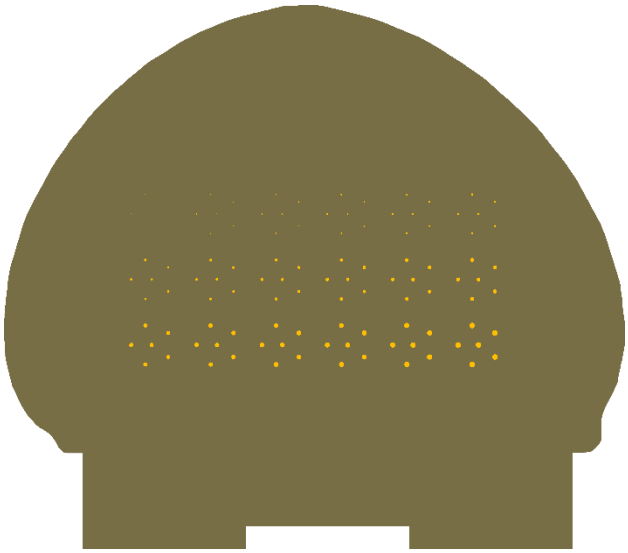
Age Category	Adult
Body Region	Breast
Target Modality	Mammography, Tomosynthesis
Diagnostic Features	Calcification pattern

This accessory fits the following phantom:

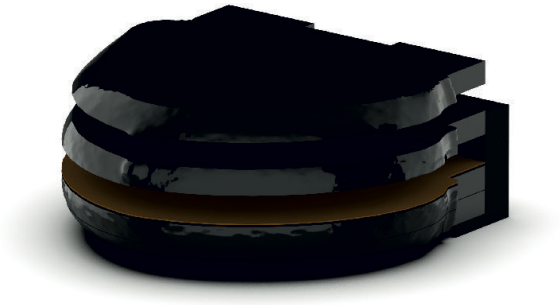
Breast phantom
SKU: PX0203421

This calcification insert simulates microcalcifications found in human breast tissue. It incorporates copper dots ranging from 50 µm to 390 µm in diameter, exhibiting absorption properties similar to microcalcifications in the diagnostic energy range.

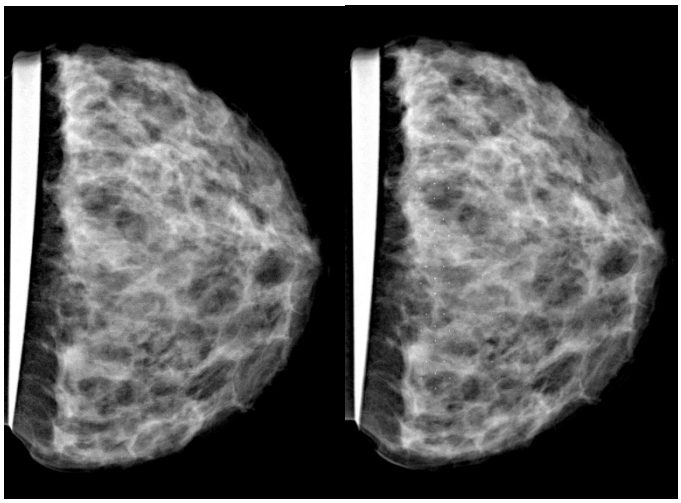
The calcification pattern is compatible with breast phantom PX0203421 for use in mammography and breast tomosynthesis, facilitating image quality assessment and training. It was also designed to enable evaluation of diagnostic software, including AI tools.



Calcification template.



Breast phantom with inserted calcification template.



Breast phantom. *Calcification template inserted.*

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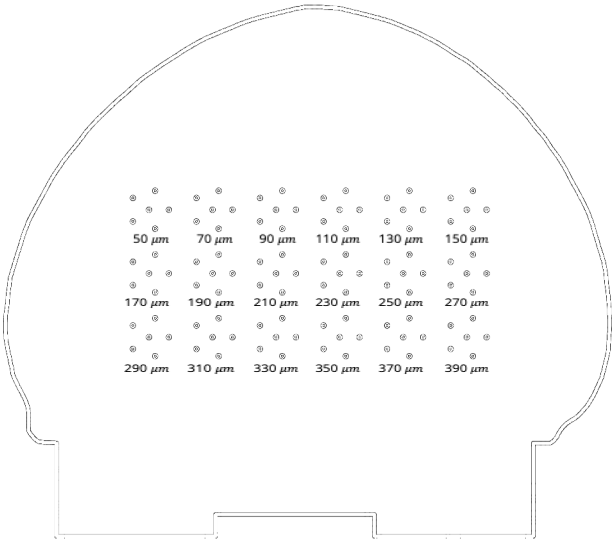
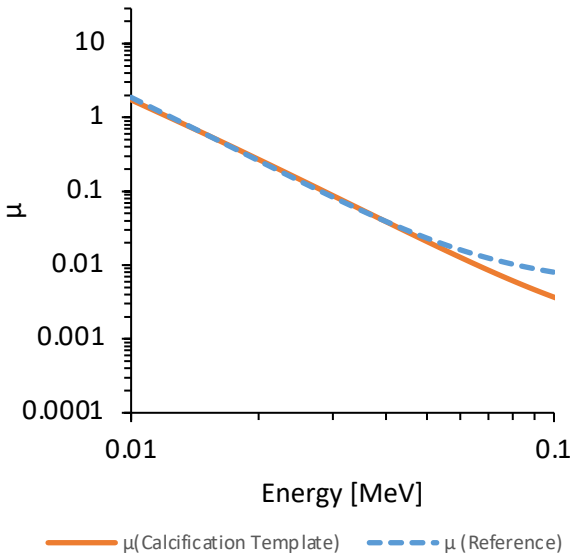
Microcalcifications



Drawing indicates diameter of microcalcifications of the insertable calcification pattern.

Attenuation properties



Calculated linear attenuation coefficients of the calcification pattern (copper dots) in comparison to hydroxyapatite particles (ρ =3,18 g/cm³, 125µm diameter) as model substance for human breast microcalcifications

Specifications

Total size	127 x 138 x 0.1 mm 5.0 x 5.4 x 0.004 in
Total weight	Approx. 10 g 0.4 oz
Components	1 flexible slab
Base material	Polyimide
Calcification material	Copper, 9 µm thickness

Diagnostic features

Insertable calcification pattern with calcifications of 50, 70, 90, 110, 130, 150, 170, 190, 210, 230, 250, 270, 290, 310, 330, 350, 370 and 390 µm diameter, arranged in groups of 6 dots in pentagonal shape with a central dot.

Within the energy range of 10-100 keV, the calcification pattern has similar absorption properties to human breast microcalcifications.

General indications

- Protect from direct sunlight.
- Do not expose to temperatures above 120 °C.
- The product is not certified as medical device.

For more information visit
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