The CIRS Model 020 BR3D Mammography Phantom was designed to assess detectability of various size lesions within a tissue equivalent, complex, heterogeneous background. This phantom provides more realistic challenges for standard screen and FFDM mammography systems as well as Tomosynthesis and breast Computed Tomography.

The phantom consists of a set of 6 slabs made of heterogeneous breast equivalent material that exhibits characteristics of real breast tissue and demonstrates how underlying targets can be obscured by varying glandularity. Each slab contains two tissue equivalent materials mimicking 100% adipose and gland tissues “swirled” together in an approximate 50/50 ratio by weight. One of the slabs contains an assortment of micro-calcifications, fibrils and masses.

Each semicircular shaped slab measures 100 x 180 x 10 mm. Each slab, with its unique swirl pattern, provides varying backgrounds when arranged in multiple combinations and thicknesses.

**Features**

- Tests Tomosynthesis and Breast Computed Tomography
- More representative than standard homogenous phantoms
- Complex background provides greater challenge for target detection
- Slab configurations provides range of thicknesses with or without targets
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**SPECIFICATIONS**

**OVERALL DIMENSIONS:** 10 cm x 18.0 cm x 6.0 cm (3.9” x 7.1” x 2.4”)

**PHANTOM WEIGHT:** 0.88 kg (1.94 lb)

**MATERIALS:** Saran Based, Zerdine Material

**MODEL 020 INCLUDES**

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<th>QTY</th>
<th>COMPONENT DESCRIPTION</th>
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<td>Mammography BR3D Phantom (5 Background &amp; 1 Target slab)</td>
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<td>User Guide</td>
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**TARGET SLAB**

**SPECKS**

1. 0.400 mm CaCO3 speck
2. 0.290 mm CaCO3 speck
3. 0.230 mm CaCO3 speck
4. 0.196 mm CaCO3 speck
5. 0.165 mm CaCO3 speck
6. 0.130 mm CaCO3 speck

**SPHEROIDAL MASSES**

14. 6.3 mm (diameter)
15. 4.7 mm (diameter)
16. 3.9 mm (diameter)
17. 3.1 mm (diameter)
18. 2.3 mm (diameter)
19. 1.8 mm (diameter)

**FIBERS**

7. 0.60 mm (diameter)
8. 0.41 mm (diameter)
9. 0.38 mm (diameter)
10. 0.28 mm (diameter)
11. 0.23 mm (diameter)
12. 0.18 mm (diameter)
13. 0.15 mm (diameter)

**BACKGROUND SLABS**

Epoxy resin: equivalent to 50% glandular / 50% adipose tissue
Size: 100 x 180 x 10 mm thick, semicircular shape

**TARGET SLAB**

Epoxy resin: equivalent to 50% glandular / 50% adipose tissue
Size: 100 x 180 x 10 mm thick, semicircular shape

**LESIONS (CaCO3 SPECKS)**

Grain size: 0.130, 0.165, 0.196, 0.230, 0.290 & 0.400 mm

**SPHEROIDAL MASSES**

Epoxy resin: breast carcinoma
Diameters: 1.80, 2.38, 3.18, 3.96, 4.76 & 6.32 mm

**FIBERS**

Length: 10 mm length
Diameters: 0.15, 0.18, 0.23, 0.28, 0.38, 0.41 & 0.60 mm

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