

DEXA Phantom

The "Bona Fide Phantom" (BFP)⁽¹⁾

Bio-Imaging's "Bona Fide Phantom" (BFP), is a quality control tool for Dual-Energy X-ray Absorptiometry (DEXA) instruments, which features an acrylic-embedded calcium hydroxyapatite (CHA) step-wedge. Advanced design features make it the best choice for assessing DEXA instrument stability. You can successfully use the BFP on all mainstream DEXA instruments.

The BFP offers a range of densities (0.7 - 1.5 g/cm²), to verify instrument function over the clinically relevant range, not just at a single, "healthy" BMD. Linearity of BMD over the clinically range is critical for full instrument evaluation. The phantom uses a CHA insert for direct assessment of bone density accuracy. The CHA insert is compliant with FDA guidelines for cross-calibration phantoms for clinical trials. Each insert is machine processed, guaranteeing manufacturing precision.

⁽¹⁾ BFP design is the property of Bio-Imaging Technologies, Inc.



Model 026

The BFP is cast in acrylic and comes with its own carrying case for easy handling. The tote remains on the phantom during scanning and does

not affect BMD readings, allowing rapid placement and removal for the phantom from the bed. A flight case is available as an option.

Features

- Checks a Range of Densities
- FDA Compliant
- Easy to carry and can be Scanned in the Bag
- Universal Axial DEXA Instrument Compatibility
- No Water Bath
- Edge-Detection Challenge
- Realistic Soft Tissue Mimic

Model 026 Specifications

SOFT TISSUE ANALOG:

Approximately 25% Fat

BMD RANGE:

0.7 to 1.5 g/cm² (GE-Lunar)

0.6 to 1.2 g/cm² (Hologic)

DIMENSIONS: (LxWxH)

11.25" x 10.25" x 8.00"

8.6" x 7.5" x 5.7" (22 x 19 x 15 cm)

WEIGHT

(Including carrying bag):

16.6 lbs. (7.55 kg)

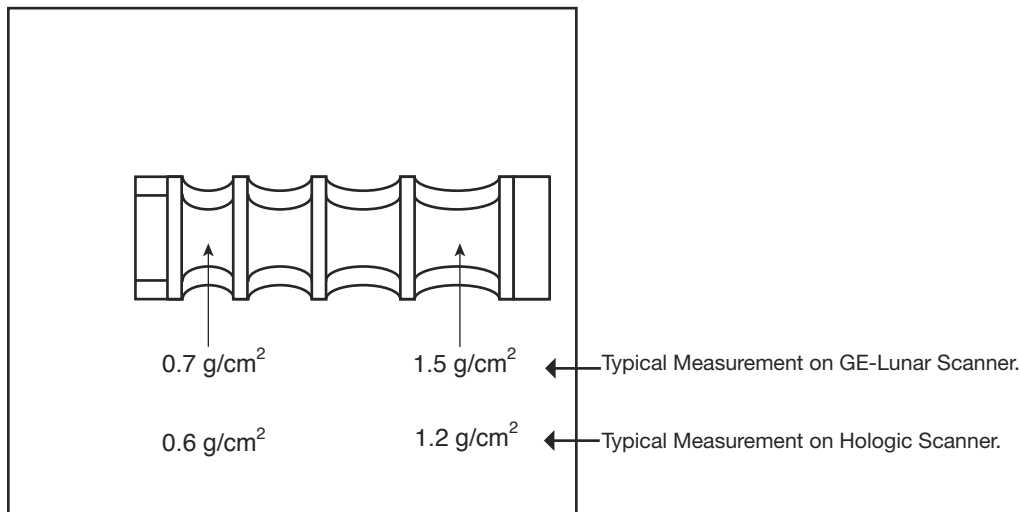
OPTIONAL FLIGHT CASE:

Dimensions

(28.6 x 26.0 x 20.3 cm)

Weight

6.4 lbs. (2.9 kg)



Note: The various DXA scanner manufacturers have developed and published cross-calibration formulas for use in data comparison.

1. A comparison of phantoms for cross-calibration of lumbar spine DXA. Pearson, D., Cawte, SA, Green, DJ., Osteoporosis Int. 2002 13:948-954.
2. Choice of Cross-Calibration Phantom for DXA of the Lumbar Spine and Total Hip. Jackson, SA., Miller, CG. J. Bone Min. Res. 18, Suppl. 2. S.314, 2003.