

Bone Density Calibration Phantom

The hydroxyapatite (HA) content of the QRM-BDC allows a HU vs. HA calibration with respect to bone density evaluation of bones.

The QRM-BDC Phantom contains three 18 mm cylindrical inserts providing 0, 100 and 200 mg HA / ccm. The Phantom can be directly placed under an object to evaluate the bone mineral content of the object by CT.

As base material of the three inserts CTWATER® is used. CTWATER® is a solid water equivalent plastic offering the same X-ray attenuation properties as real water.

The shape of the phantom is slightly bended for a correct fit under the object.

The phantom has a standard length of 200 mm, but is available in different length, up to 700 mm. This is useful for objects with extended scan field.

Other HA concentrations are also available on request. Please contact us to learn more.

Specifications

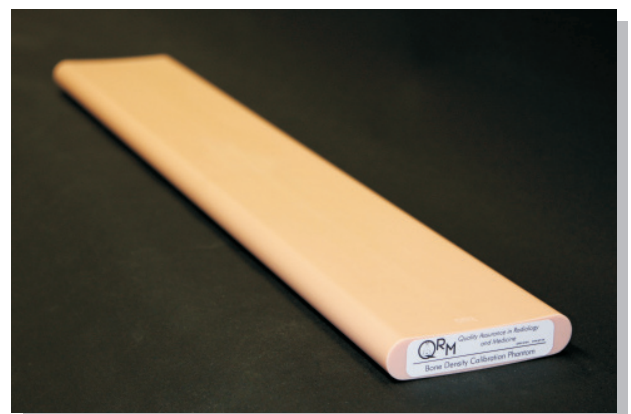
Phantom cross section	120 mm x 25 mm
Standard phantom length	200 mm
Phantom weight	400 g
Base material	tissue-equivalent resin (at 120 kV)
Standard inserts diameter	18 mm
Insert I	100 mg HA/cm ³
Insert II	CTWATER® (0 mg HA / cm ³)
Insert III	200 mg HA/cm ³



QRM-BDC Bone Density Calibration Phantom



CT-image of the Bone Density Calibration Phantom



Long version of the QRM-BDC
(up to 700 mm possible)

