

Item # PX-V10-02

Dog Abdomen **Phantom For Ct And X-Ray**



The phantom provides a realistic simulation of a dog abdomen with no contrast agent. Bones and soft tissue are displayed authentically with realistic CT values for all tissues at 120 kVp tube voltage in the CT. Air spaces are filled with a cellulose polymer composite with about -80 Hounsfield units. If the phantom is to be used primarily with other tube voltages (e.g. 100 kVp), the calibration of the CT values can be adjusted accordingly if required. The phantom also provides realistic tissue contrasts in X-ray imaging.

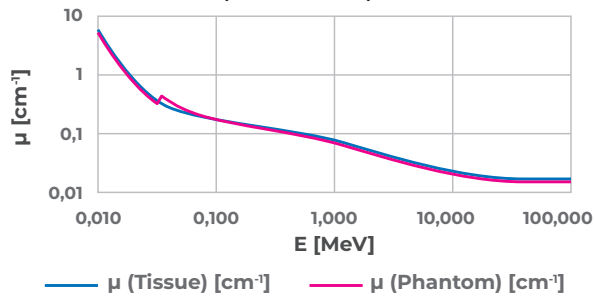
Dog Abdomen Phantom For Ct And X-Ray



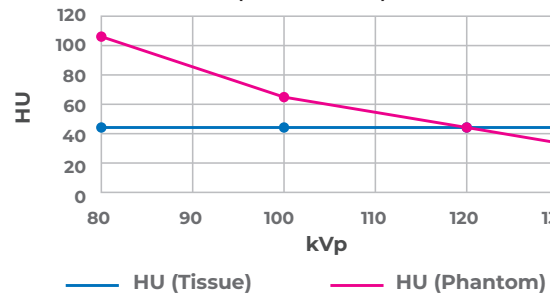
Attenuation values are calibrated to be equivalent to tissue at 120 kVp CT imaging. Calibration to other spectrum energie (e.g., 100 kVp CT imaging) is possible upon request.

Soft Tissue

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

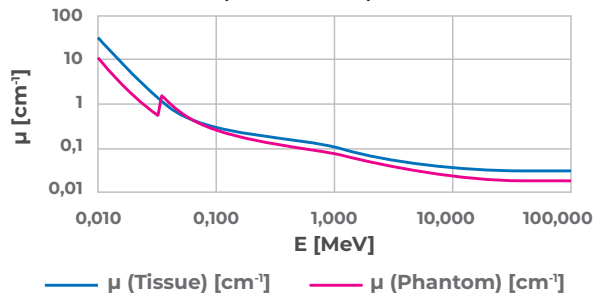


Hounsfield units
(calculated)

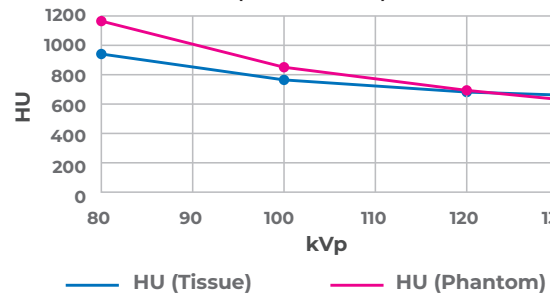


Bone Tissue

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



Hounsfield units
(calculated)





General indications

- Phantoms are manufactured of a cellulose-polymer composite material with similar properties to hardwood. If treated carefully, they will last for a long period.
- The phantoms are coated with a protective layer. If the protective layer is unharmed, the phantoms 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 seriously damaged.
- The phantom is not equipped for dose measurements with dosimeters and it is not suited for material characterization with dual energy CT.
- Air voids are filled with cellulose-polymer composite of approx. -80 HU.

Product Dimensions and Weight:

Size: ≈ 18.7 x 18.4 x 20 cm
 ≈ 7.36 x 7.24 x 7.87 in

Weight: ≈ 5 kg
 ≈ 11.2 lbs

