

# Child Torso Phantom 3-Year-Old





This phantom simulates the contrast-enhanced thorax, abdomen and pelvis of a 3-year-old child in the portal venous phase. It covers the sixth cervical vertebra to the perineum.

The phantom can be used in CT (including CBCT) and X-ray imaging to evaluate and optimize imaging performance and post-processing applications, including AI-enabled applications. It is also suited for training purposes.

The phantom provides a detailed and realistic simulation of soft and bone tissue.

**Diagnostic features:**

Realistic simulation of vasculature, bone and soft tissues, including the lungs, heart, liver, gallbladder, pancreas, spleen, adrenals, kidneys, stomach, small intestine, colon and bladder.

**Specifications**

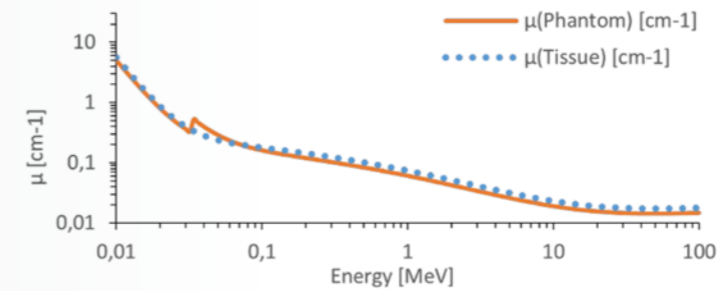
- Size: approx. 24 x 14 x 40 cm
- Weight: approx. 6.30 kg
- Base Material: cellulose-polymer composite
- Optimal Tube Voltage: 100 kVp (adaptable upon request)



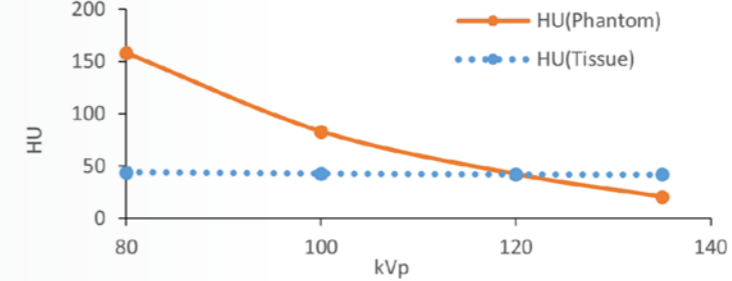
**Attenuation properties**

**Soft Tissue**

Linear attenuation coefficients [cm<sup>-1</sup>] (calculated)

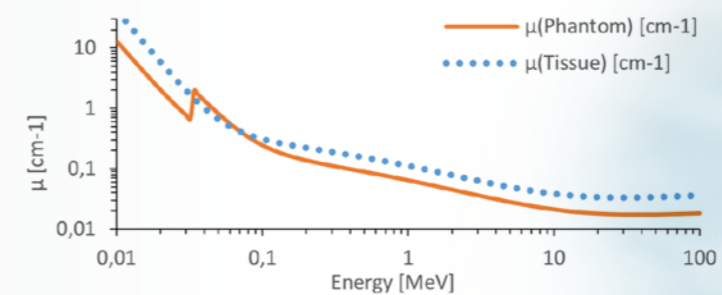


Hounsfield units (calculated)

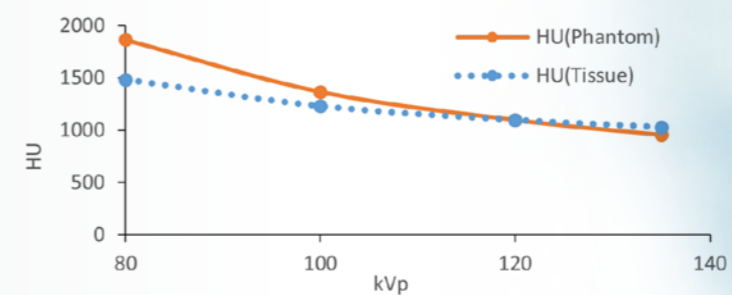


**Bone Tissue**

Linear attenuation coefficients [cm<sup>-1</sup>] (calculated)



Hounsfield units (calculated)



Tissue Reference: Woodard HQ, White DR. The composition of body tissues. Br J Radiol. 1986.

**General indications**

- The phantom is made of a cellulose-polymer composite material with properties similar to hardwood. If handled carefully, it will last a long time.
- The phantom is coated with a protective layer. If the protective layer is undamaged, the phantom 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 severely damaged.
- The phantom is not equipped for dose measurements with dosimeters and it is not suited for material characterization with dual energy CT.
- The phantom is not certified as medical device.
- Air voids are filled with cellulose-polymer composite of approx. -160 HU.
- Handle with care to prevent injury or damage.



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