

Micro-CT Contrast Scale

**A phantom for evaluating high contrast materials in Micro-CT.
Materials of highest interest in small-animal imaging (CaHA and Iodine).**

The contrast scale factor allows evaluating the contrast, measured in Hounsfield Units, obtained for a given concentration of a substance, specified in mg/cm^3 . The MicroCT-ContrastScale phantom provides HA (calcium hydroxyapatite) and iodine samples, i.e. the substances of highest interest in small-animal imaging.

The standard phantoms are scaled down from the diameter of an average human trunk (32 cm) to that of a fat mouse or lean rat (32 mm). Other dimensions as well as inserts with concentrations other than specified here can be produced upon request.

Specifications

Base material	resin
Iodine insert	$\sim 9 \text{ mg}/\text{cm}^3$
CaHA insert	$\sim 1200 \text{ mg HA}/\text{cm}^3$
(actual values can be found on the phantom)	

Dimensions for mouse-size phantom:

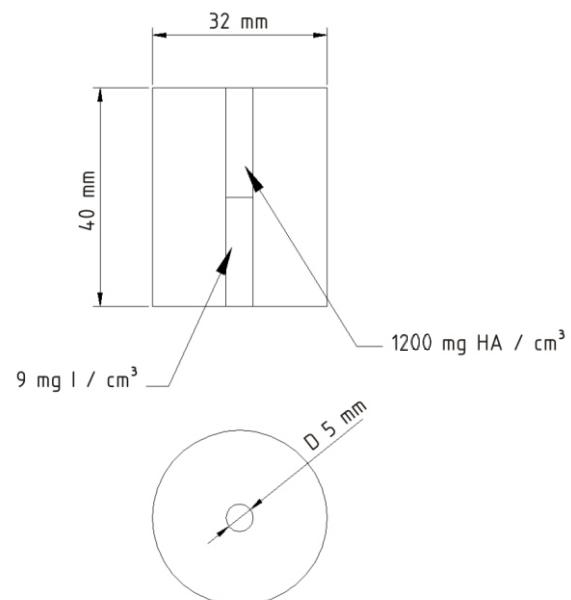
Diameter	32 mm
Length	40 mm
Weight	35 g
Diameter of inserts	5 mm

References:

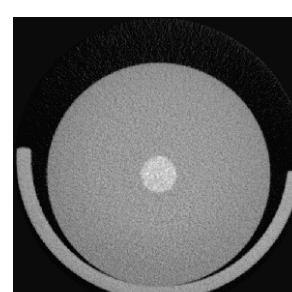
- [1] Kalender, W., Durkee, B., Langner, O., Stepina, E., Karolczak, M.: Comparative Evaluation: Acceptance Testing and Constancy Testing for Micro-CT Scanners.



Micro-CT Contrast Scale Phantom



Dimensions and content of the phantom



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X-ray of the iodine insert 0755-22934005 (座机)

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