

Micro-CT Low Contrast Phantom

As a useful tool for evaluation of contrast detectability the MicroCT Low Contrast Phantom provides four inserts of two different contrast levels, each in two different

The MicroCT Low Contrast Phantom is a cylindrical phantom in which small details (cylindrical inserts) at a specified contrast with respect to the background allow for an estimation of the low-contrast resolution of a Micro-CT scanner.

The difference in CT-numbers (HU) can be as low as -40 HU and -80 HU, respectively^[1]. Actual values vary slightly depending on scanner geometry, calibration and tube voltage.

Specifications

Base material resin

Low contrast inserts:

Diameter 1 mm / 2.5 mm
approx. contrast -4 % / -8 %

Dimensions for mouse-size phantom:

Diameter 32 mm
Length 40 mm
Weight 35 g

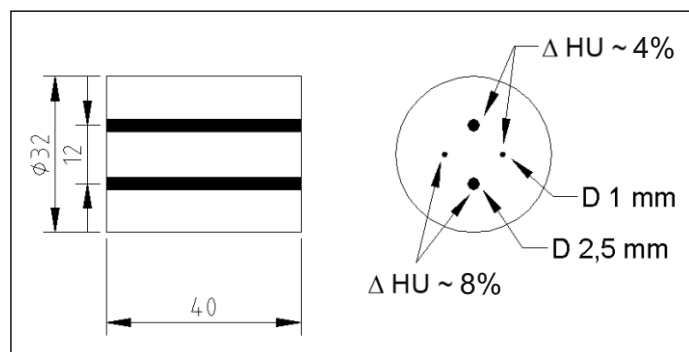
Other dimensions and contrast steps upon

References:

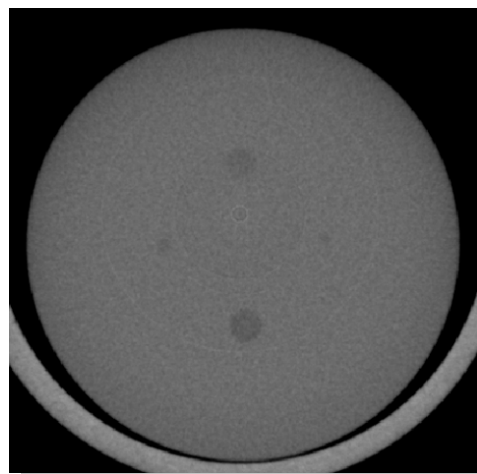
[1] Kalender, W., Durkee, B., Langner, O., Stepina, E., Karolczak, M.: Comparative Evaluation: Acceptance Testing and Constancy Testing for Micro-CT Scanners.
Biomedizinische Technik 50 (2005), 1192-1193



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Schematic drawing of the Phantom



Micro-CT scan of the phantom