

# Micro-CT SSP

## QRM-MicroCT-SSP

Measuring slice sensitivity profiles, slice thickness or axial modulation transfer function becomes easy with the Micro-CT-SSP-Phantom.

QRM-MicroCT-SSP contains a thin insert of material that highly attenuates X-ray (Au). The metal insert is only 10 microns thick and thus adapted to the nominal slice thickness of micro-CT scanners.

The high-contrast platelet (diameter 1 mm) is embedded in the center of the cylindrical phantom made of resin.

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 substances other than specified here can be produced upon request.

### Specifications

Base material ..... resin  
Diameter of gold insert ..... 1 mm  
Thickness of gold insert ..... 10  $\mu\text{m}$

Dimensions for mouse-size phantom:

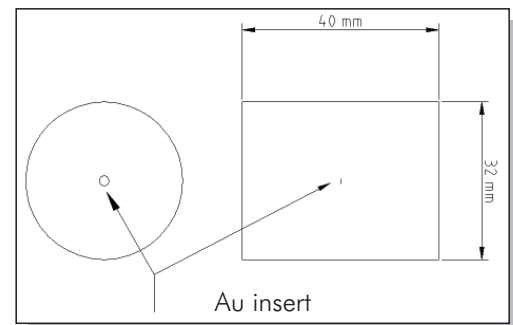
Phantom diameter ..... 32 mm  
Phantom length ..... 40 mm  
Phantom weight ..... 35 g

### References:

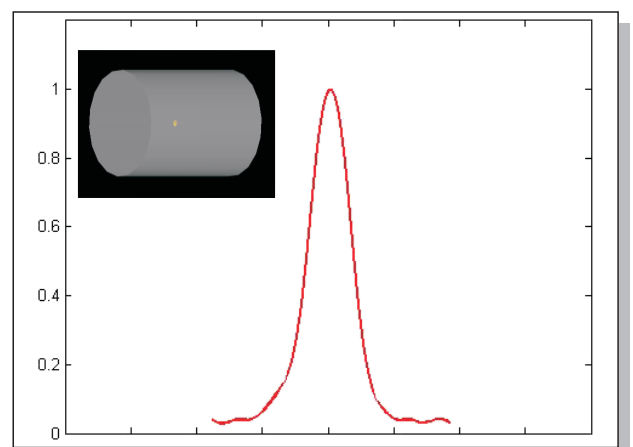
- [1] Kalender, W., Durkee, B., Langner, O., Stepina, E., Karolczak, M.: Comparative Evaluation: Acceptance Testing and Constancy Testing for Micro-CT Scanners. *Biomedizinische Technik* 50 (2005), 1192-1193



Micro-CT SSP Phantom



Schematic drawing of the phantom



Example of scanner SSP