

Micro-CT Wire Phantom

The Micro-CT Wire Phantom is a perfect tool to assess in-plane spatial resolution of any Micro-CT system. Different diameters of wire and materials are available.

The Micro-CT Wire Phantom is based on a cylinder containing two wires in air or in solid material aligned parallel to the phantom axis of rotation. One of the wires is slightly positioned off center, the second one away from the center in order to allow estimating image quality in the periphery.

Point Spread Function (PSF) and Modulation Transfer Function (MTF) can so easily be investigated.

Different wire diameters are available as well as different materials and positions of the wires inside the phantom.

Please specify the material the wires should placed in (air or solid plastics). In both cases the contrast will be high enough for evaluation.

Specifications

Material of wire	typically tungsten
Diameter	20 or 32 mm
Length inner/total	40 / 58 mm
Weight	7.5 g (air)
	35 g (resin)
Diameters of wires	3 , 10 or 25 μm

Other wire matererials and phantom dimensions upon request!

References

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

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