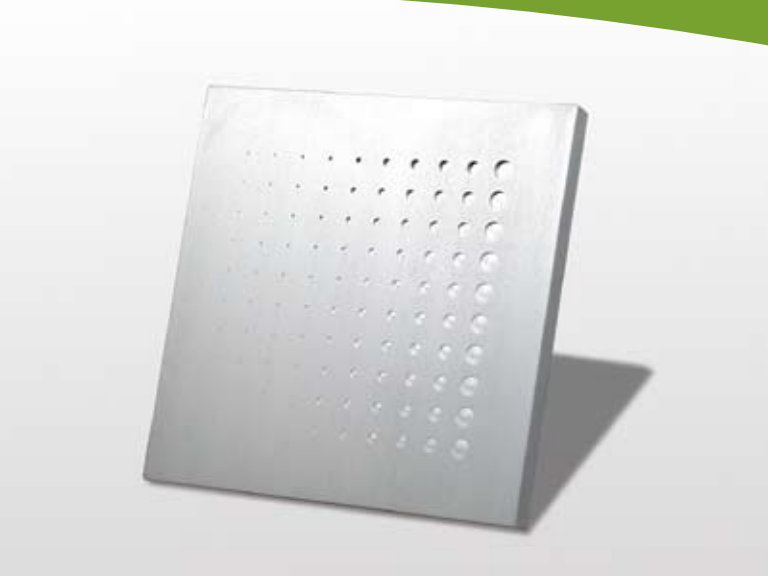
X-Ray Test Tools



1151 Radiographic Contrast/Detail Phantom

A useful method of assessing the overall image quality of a fluoroscopy system is by defining its ability to detect small objects with small differences in contrast from the background.

The Model 1151 consists of an aluminum plate with a 10 by 10 matrix of holes that vary in diameter and depth. For a hole diameter, the depth of the hole which can just be visualized is defined as the contrast for that diameter. A contrast detail curve of the fluoroscopic system can be established by plotting the diameter of the hole vs. the depth of the hole that is being visualized.

Specifications

Construction: ..... 6061 aluminum
Hole depth: ..... 0.13 to 2.29 mm (0.005 to 0.09 in)
Hole diameter: ..... 0.58 to 7.93 mm (0.023 to 0.312 in)
Dimensions: ..... 17.8 x 17.8 x 13 mm (7 x 7 x 0.512 in)
Weight: ..... 2.2 kg (4.8 lbs)

AFS-1 Aluminum HVL Attenuator Set

Consists of sixteen 10 x 10 cm absorbers of various thicknesses; six of 1 mm, two of 0.5 mm, four of 0.1 mm and 4 of 0.05 mm made of 1100 aluminum with a purity of 99%. Total thickness of the set is 7.6 mm.

07-431 Copper HVL Attenuator Set

For HVL determination of high-range x-ray generators (140 to 400 kVp). Set consists of ten 10 x 10 cm absorbers, including four of 1 mm, two of 0.5 mm, and four of 0.1 mm, for a total thickness of 5.4 mm.

07-434 High-Purity Aluminum HVL Attenuator Set

When doing HVL measurements with a mammography unit, it is recommended that highest-purity aluminum be used. The set consists of five high purity (99.99%) aluminum filter, 10 x 10 cm, 0.1 mm thick, which permit more accurate halfvalue layer determination on mammography machines.

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