

PRECISE CT NUMBER AND ELECTRON DENSITY CALIBRATION

The CT Number/Electron Density QA Phantom is a precision-engineered tool designed for comprehensive CT imaging quality assurance. This advanced phantom provides an accurate assessment of CT number uniformity and electron density calibration, ensuring high-quality imaging and reliable dose calculations. An essential addition to any imaging department, RSD's CT Number/Electron Density QA Phantom offers reliable and reproducible results for effective CT quality assurance and calibration.

Product Features & Benefits

Geometric Accuracy: Verifies the precision of CT scanner geometry for accurate imaging and measurements

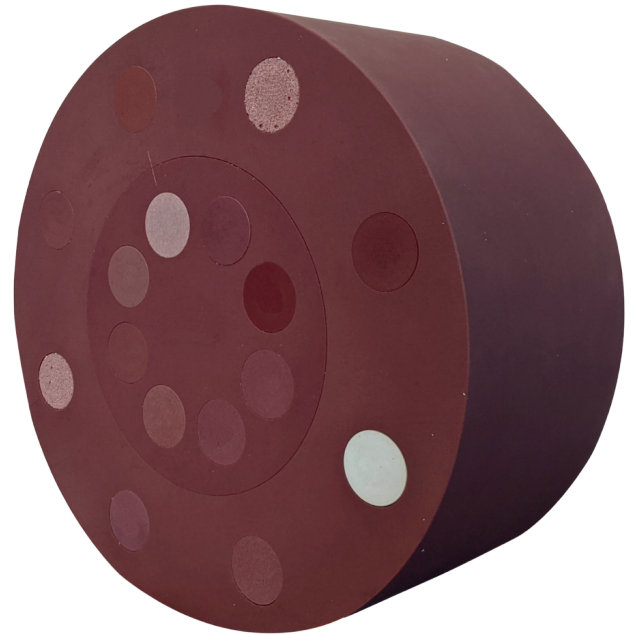
Homogeneity: Assesses image uniformity across the phantom to ensure consistent scanner performance

CT Hounsfield Numbers: Validates the accuracy of Hounsfield unit measurements for precise tissue characterization

Dose Calculations for Treatment Planning: Supports accurate radiation dose calculations, essential for reliable treatment planning in radiation therapy

Specifications

- Outer Body Diameter: 330 mm
- Inner Head (Insert) Dimensions: 180 mm x 150 mm
- Water-mimicking background material for both head and body sections
- 16 interchangeable chambers for detailed tissue characterization
- Available Tissue Materials: Water-mimicking tissue, adipose tissue, lung tissue, brain tissue, soft tissue, breast tissue, hard cortical bone, kidney tissue, liver tissue, rib bone, and inner bone



Standards Compliance

IEC 61223-3-1: Evaluation and routine testing in medical imaging departments – Part 3-1: Acceptance test – Imaging performance of X-ray equipment for radiographic and radioscopy systems

Accessories

- Electron & Physical Density Chart
- Ready-Made Stand
- Comprehensive Product Manual
- Sturdy Carrying Case

Model Number

QA-CT020: CT Number/Electron Density QA Phantom