

## SPECT Phantoms

**Jaszczak ACR SPECT Phantom**

The ACR SPECT Phantom meets the requirements set by ACR. The Phantom provides consistent performance information for any SPECT or PET system. The Phantom is the same as the Deluxe SPECT Phantom except that the flanges have been removed. Multiple performance characteristics of camera-based SPECT systems are evaluated from a single scan of the phantom.

On-axis and off-axis transverse line spread function may be easily measured without removing the cover plate. Measurements of full-width-half (or tenth) maximum can be readily determined, either in air or in water.

**The Phantom is used for:**

- System performance valuation of: Collimator, Artefacts, Calibration, and Reconstruction Parameters
- Acceptance testing
- Routine quality, assurance and control
- Evaluation of centre-of-rotation error
- Evaluation of non-uniformity artefact
- Evaluation of changes of radius-of-rotation on spatial resolution

- Evaluation of reconstruction filters on spatial resolution
- Evaluation of attenuation and scatter compensation
- Single slice volume sensitivity
- Total system volume sensitivity
- Lesion detectability

The Flangeless Deluxe SPECT Phantom is used for high resolution cameras, complying to the ACR requirements.

**Specifications**

- Cylinder Interior Dimensions: 8.5" dia x 7.32" h (21.6 x 18.6 cm)
- Cylinder Wall Thickness: 0.125" (3.2 mm)
- Volume: 6.75 L
- Volume With Inserts: 6.1 L
- Cold Rod Insert Height: 3.46" h (8.8 cm)
- Cold Rod Dimensions: 4.8mm, 6.4mm, 7.9mm, 9.5mm, 11.1mm, 12.7mm
- Height of Spheres From Base Plate: 5" h (12.7 cm)
- Solid Spheres Diameters: 9.5mm, 12.7mm, 15.9mm, 19.1mm, 25.4mm, 31.8mm.

Phantom SPECT ACR

**Optional Inserts**

- Triple Line
- Hot Spot Insert
- Ultra Deluxe Cold Rod
- Hollow Sphere
- Micro Hollow Sphere
- Cardiac

