

Afterloading Calibration Phantom



Acrylic cylinder phantom for afterloading source strength measurement and for afterloading probe calibration

Features

- ▶ Makes it possible to measure the source strength of afterloading sources in a phantom
- ▶ Makes it possible to calibrate afterloading probes against a reference chamber
- ▶ A variety of adapters for different afterloading applicators, dosimetry probes and reference chambers is available

The Afterloading Calibration Phantom is an acrylic cylinder with a diameter of 20 cm and a height of 12 cm. It is a practical tool for afterloading source strength measurement in a solid state phantom. In addition, it is used for calibration of semiconductor probes for afterloading dosimetry. For both calibration purposes, the radioactive afterloading source is positioned into the afterloading applicator in the center hole of the phantom by remote control after the reference chamber has been placed into one of the peripheral holes. On a circle with a radius of 8 cm, there are four holes situated 2 cm from the rim of the phantom for detector positioning at 0°, 90°, 180° and 270° by using appropriate adapters.

For detector calibration, the afterloading probes and the reference chamber are positioned in the holes on the circle. To equalize the scattered radiation, holes not used are closed by dummy plugs and the phantom is mounted on a tripod by means of the thread at the bottom. A variety of adapters for applicators, probes and chambers is available.

Ordering Information

T9193 Afterloading calibration phantom

L651002 Tripod for afterloading calibration phantom

Adapters for afterloading applicators, afterloading probes and reference chambers upon request

- ▶ Afterloading Probes *page 35*
- ▶ Ionization Chambers *page 16f.*