## ISO Calibration Phantoms



## Standard test phantoms representing parts of human bodies with regard to back-scattering of incident radiation

## Features

- Comply with the standard ISO 4037 part 31
- Represent parts of human bodies with regard to backscattering of the incident radiation
- $\blacktriangleright$  Suitable for calibrations and type tests of personal dosemeters, because they measure the quantities  ${\rm H}_p({\rm 0.07})$  and  ${\rm H}_p({\rm 10})$

The ISO calibration phantoms comply with the standard ISO 4037 part  $3^{1}$  which describes standard test phantoms for calibration and type tests of personal dosemeters, that measure the dose quantities  $H_{p}(0.07)$  and  $H_{p}(10)$ . The phantom composition is acrylic material (PMMA). Three types representing parts of human bodies in regard to back-scattering of incident radiation are available:

- Slab phantom: The water slab phantom represents the human torso and consists of a 300 mm x 300 mm x 150 mm cube, which is filled with water. The front wall is 2.5 mm thick; all other walls are 10 mm thick.
- Pillar phantom: The water pillar phantom represents a lower arm or leg and consists of a circular cylinder with 73 mm diameter and 300 mm length, which is filled with water. The wall is 2.5 mm thick; the bottom and cover plates are each 10 mm thick.
- Rod phantom: The acrylic rod phantom represents a finger and consists of a circular acrylic cylinder with 19 mm diameter and 300 mm length.

## Ordering Information

T41007 ISO water slab phantom, representing a torso T41011 ISO water pillar phantom, representing arm and leg T40009 ISO acrylic rod phantom, representing a finger

<sup>&</sup>lt;sup>1</sup> ISO 4037-3:1999 "X and gamma reference radiation for calibrating dosemeters and doserate meters and for determining their response as a function of photon energy -- Part 3: Calibration of area and personal dosemeters and the measurement of their response as a function of energy and angle of incidence"