

Cone-Beam Electron Density Phantom

Simplify your IVDT-Related Workflows

- Expanded phantom size and scanning options
- Exquisite adherence to ICRU-44 and ICRP material performance
- Supports complete IVDT automation with patent-pending rod marker technology
- Easy to transport, align, and use



Generating accurate IVDT calibrations for radiation therapy is easier than ever with the new Cone-Beam Electron Density Phantom from Gammex, a proven leader in Tissue-Mimicking Materials (TMM).

From self-aligning rods designed to reduce human error, to a rolling case that protects the phantom's integrity, to high-equivalency materials that thoroughly test your modern wide-beam CT scanner, this phantom meets your clinical and workflow needs.

Processing an IVDT is easier, too. Our patent-pending rod markers uniquely identify each material during the CT scan. This enables automated IVDT analysis, saving valuable time and reducing risk of error.



Patent-pending rods can be uniquely identified during the CT scan.

Features and Benefits

- Expanded Size
 - Extends 16.5 cm in the superior/inferior direction
 - Full-length 16.5 cm rods, not just 5 cm
 - Oblate-shaped, 40 cm wide by 30 cm high
 - Removable 20 cm head section
 - With optional extension plates, increases to 26.5 cm in length
- Proven Gammex Materials
 - Constructed from zero HU CT Solid Water® HE
 - Materials developed in accordance with ICRU-44 and ICRP specifications
- Automation
 - Patent-pending rod markers uniquely identify each material in a CT scan
 - Automatically generate IVDTs with upcoming software
 - Rod markers remove risk of misplaced rods, rotated phantoms, and incorrect selection of ROIs
- Ease of Use
 - Single-pour, no-drop design simplifies transport and setup
 - Self-aligning rods and sections lie flush for fast and reliable positioning
 - Custom wheeled case and deluxe stand included

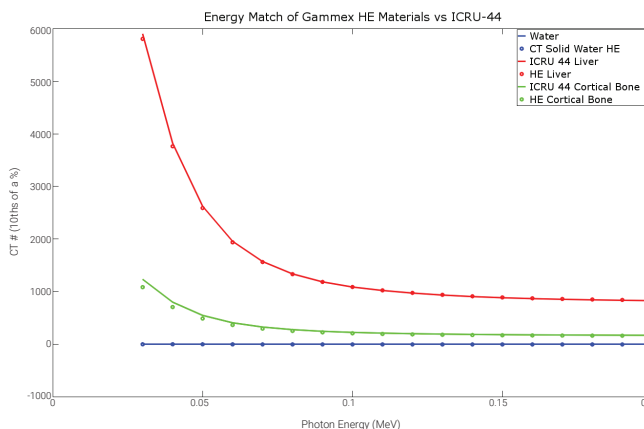


Specifications

In-plane Dimensions:	40.0 cm (15.7 in) x 30.0 cm (11.8 in)
Depth:	16.5 cm (6.3 in), up to 26.5 cm (10.2 in) with optional extension plates
Diameter of Removable Head Section:	20.0 cm (7.87 in)
Material:	HE Energy-Matched CT Solid Water®
Interchangeable Inserts:	14 solid inserts plus 2 true water containers
Optional inserts include:	Aluminum, Stainless Steel, Titanium
Optional Accessories:	Extension plates Ion Chamber conversion rod
Weight:	15.5 kg (34.1 lbs)
Case:	Wheeled case is included
Stand:	Stand is included

Standard Inserts

Material	Physical Density (g/cm3)	Electron Density Relative to Water
455 Lung LN-300	0.29	0.28
485 Lung LN-450	0.45	0.44
1553 HE Gen Adipose	0.96	0.94
1454 HE Breast 50:50	0.98	0.97
4 - 1451 HE CT Solid Water® Inserts	1.02	1.00
1481 HE Brain	1.05	1.02
1482 HE Liver	1.08	1.05
1456 HE Inner Bone	1.21	1.16
484 CB2 + 30% CaCO3	1.33	1.27
480 CB2 + 50% CaCO3	1.56	1.46
1450 HE Cortical Bone	1.93	1.78
2 - True Water Inserts	-1.000-	-1.000-



Gammex materials match the density characteristics of ICRU-44 materials **AND** their energy dependencies.

¹ American Association of Physicists in Medicine Radiation Therapy Committee Task Group 53: Quality Assurance for Clinical Radiotherapy Treatment Planning

² IAEA TECDOC-1583. Commissioning of Radiotherapy Treatment Planning Systems: Testing for Typical External Beam Treatment Techniques