



ELECTRON DENSITY PHANTOM



For use in CT treatment planning.

Can be configured to simulate head or abdomen.

Manufactured from durable epoxy.

Tissue-equivalent plugs can be positioned at 17 different locations within the scan field.

Special marker plugs enable quick assessment of distance registration.

All material accurately simulate indicated tissue within the diagnostic energy range.

Includes a rugged carrying/storage case.

Includes a bubble level.

The accuracy of radiation oncology treatment planning systems is heavily dependent upon precise CT analysis of the patient anatomy which is to be irradiated.

Physicists performing treatment planning need accurate tools to evaluate CT scan data, correct

for inhomogeneities and to document the relationship between CT number and tissue electron density. The Electron Density Phantom is designed to meet this requirement.

	Physical Density	Electron Density per cc x 1023	Electron Density Relative to Water
Phantom Body (Water-equivalent)	1.018	-----	-----
Inserts			
Water in Syringe	1.000	3.340	1.000
Lung (inhale)	0.217	0.709	0.212
Lung (exhale)	0.508	1.673	0.500
Breast (50/50)	0.99	3.267	0.977
Dense Bone 800 mg/cc HA	1.464	1.575	4.894
Trabecular Bone, 200 mg/cc HA	1.159	3.725	1.115
Liver	1.0709	3.514	1.041
Muscle	1.061	3.480	1.052
Adipose	0.967	3.180	0.951

SPECIFICATIONS:

Material: Epoxy resin

76-462 Electron Density Phantom

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