# Phantoms for therapeutic energy range

Comparison of Physical Prope	rties				ICRU	pub	lication 23 (	Reference man
		human soft tissue		muscle	fat	(	:a <mark>rtilage</mark>	lung
electron density (x10 <sup>23</sup> e/g)	3.29		3.31	3.34		3.28	3.31	
effective atomic number	7.03		7.45	6.33	6.33 7.89		7.49	
specific gravity		1.00		1.05	0.95	0.95		0.26
	water	acryl	Tough Water Phantom WD	Tough Bone Phantom BE-T	Tough Bone Phantom BE-H	E	ough Bone Phantom BE-N	Tough Lung Phantom LP
electron density (x10 <sup>23</sup> e/g)	3.343	3.248	3.265	3.108	3.154		3.213	3.211
effective atomic number	7.417	6.467	7.328	13.179	11.697		9.141	7.242
specific gravity	1.000	1.180	1.018	1.730	1.500	П	1.240	0.370

	Tough Water Phantom WD	Tough Bone Phantom BE-T	Tough Bone Phantom BE-H		B P	ough one hantom E-N	Tough Lung Phantom LP
Н	8.63	3.69	5.11	T		6.97	7.00
C	68.89	29.22	42.45	T		60.03	50.20
N	2.18	1.19	1.73	Т		2.45	_
0	17.88	32.66	28.13	T		21.79	35.10
P	_	10.24	7.00	T		2.30	0.10
Cl	0.15	0.06	0.09			0.13	1.00
Ca	2.27	22.92	15.49	Т		6.33	_
Al	_	_	_			-	1.50
Si	_	_	_	I		_	5.00

PH-37

41480-000

## Therapy Body Phantom THRA-1





## THRA-1 is an anthropomorphic, cross sectional dosimetry for therapeutic energy range





#### **FEATURES**

- This phantom is a therapy planning phantom made of Tough Phantom Series human tissue substitutes
- Sizes and spacing of dosimeter cavities and slice thickness may be custom ordered

#### **DESCRIPTIONS**

#### SET INCLUDES

- 1 phantom supporting frame insert rods for dosimeter holes
- 1 storage case manual

#### MATERIALS

Body: Tough Water WE-211 (epoxy resin)

Bone: Tough Bone BE-303

Lung: Tough Lung LP-430

#### **SPECIFICATIONS**

Phantom height: 80 cm / 31.6 in

Phantom weight: 33 kg / 72.7 lb

Slice thickness: 3 cm / 1.2 in

Dosimeter holes:

in lattice-like pattern of 3  $\times$  3 cm / 1.2  $\times$  1.2 in

41480-010 PH-38

# Pediatric Therapy Body Phantom THRA-2









#### **FEATURES**

- Unlike conventional radiotherapy phantoms, synthetic bones with unified size are used so that there are no differences of size by using human bones
- Easy to compare data between facilities
- Tumor targets can be attached as options

### **DESCRIPTIONS**

#### SET INCLUDES

- 1 phantom supporting frame insert rods for dosimeter holes
- 1 storage case manual

Body: Tough Water WE-211 (epoxy resin)

Bone: Tough Bone BE-303 Lung: Tough Lung LP-430

#### **SPECIFICATIONS**

Phantom height: 60 cm / 23.6 in



