

Tissue Equivalent CT Dose Phantoms

Model 007TE



ACCURATE SIZE-SPECIFIC DOSE MEASUREMENTS

The CIRS Tissue Equivalent CT Dose Phantoms are designed to more accurately simulate the patient's anatomy, from small infant to large adult patient, rendering more accurate and reliable CT dose data.

The bodies of the phantoms are made from Plastic Water[®]-LR that faithfully mimics the x-ray linear attenuation and scatter properties of water within 1% in diagnostic energy. There are 8 abdominal, 8 thorax, and 4 head phantoms of different sizes and ages available.

CT dose phantoms include an embedded vertebral bone equivalent rods and external bone rings (heads) that are specifically formulated to mimic the appropriate density for patient size/age. The thorax CT dose phantoms include vertebral bone equivalent rod and lungs. Lung equivalent material mimics inhale lung within 3% by linear attenuation.

All of the phantoms have 5 through-holes with an inside diameter of 1.30 cm to accommodate standard CT dose probes, and 5 tissue equivalent rods to plug the holes when not in use. One hole is at the center and 4 are around the perimeter, 90° apart and 1 cm from center to the outside edge of the phantom.

Features

- Usable on all CT scanners
- Size-specific options, from infant to large adult
- Simulates patient head, thorax and abdominal regions
- Made from tissue equivalent epoxy
- 1.30 cm inside hole diameter sized for standard CT Dose probes

深圳市展业达鸿科技有限公司

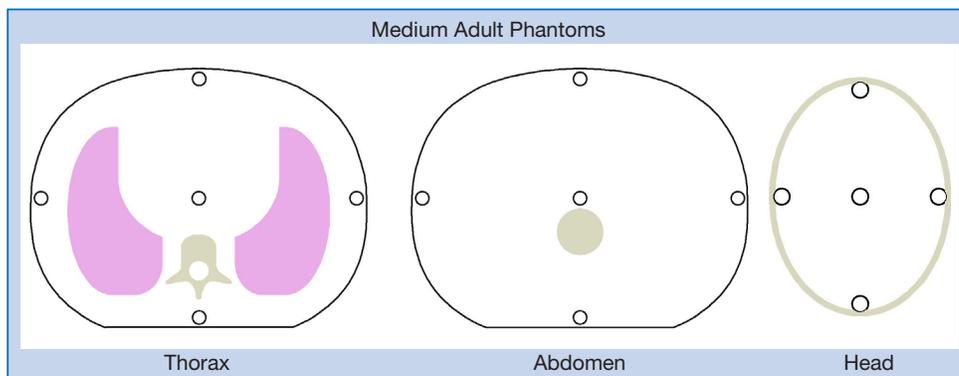
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CIRS
Tissue Simulation & Phantom Technology



SPECIFICATIONS

THORAX & ABDOMINAL PHANTOM

MODEL NO.	AGE GROUP	PA DIAMETER	LR DIAMETER	THICKNESS
007TE-01	Abdominal-Newborn	9.0 cm	10.5 cm	15.0 cm
007TE-02	Abdominal-1 year old	11.5 cm	14.0 cm	15.0 cm
007TE-03	Abdominal-5 year old	14.0 cm	18.0 cm	15.0 cm
007TE-04	Abdominal-10 year old	16.0 cm	20.5 cm	15.0 cm
007TE-05	Abdominal-15 year old	18.5 cm	24.0 cm	15.0 cm
007TE-06	Abdominal-Small Adult	22.0 cm	30.0 cm	15.0 cm
007TE-07	Abdominal-Medium Adult	25.0 cm	32.5 cm	15.0 cm
007TE-08	Abdominal-Large Adult	31.0 cm	38.9 cm	15.0 cm
007TE-11	Thorax-Newborn	9.0 cm	10.5 cm	15.0 cm
007TE-12	Thorax-1 year old	11.5 cm	14.0 cm	15.0 cm
007TE-13	Thorax-5 year old	14.0 cm	18.0 cm	15.0 cm
007TE-14	Thorax-10 year old	16.0 cm	20.5 cm	15.0 cm
007TE-15	Thorax-15 year old	18.5 cm	24.0 cm	15.0 cm
007TE-16	Thorax-Small Adult	22.0 cm	30.0 cm	15.0 cm
007TE-17	Thorax-Medium Adult	25.0 cm	32.5 cm	15.0 cm
007TE-18	Thorax-Large Adult	31.0 cm	38.9 cm	15.0 cm

HEAD PHANTOM

MODEL NO.	AGE GROUP	PA DIAMETER	LR DIAMETER	THICKNESS
007TE-21	Head-Newborn	12.0 cm	9.5 cm	15.0 cm
007TE-22	Head-1 year old	16.0 cm	12.0 cm	15.0 cm
007TE-23	Head-5 year old	17.0 cm	13.5 cm	15.0 cm
007TE-27	Head-Medium Adult	19.0 cm	14.5 cm	15.0 cm

PHANTOM MATERIAL SPECIFICATIONS

DESCRIPTION	PHYSICAL DENSITY, G/CC	ELECTRON DENSITY, 1/CC
BONE ADULT & 15 YEARS	1.60	5.030 · 10 ²³
BONE NEWBORN	1.41	4.498 · 10 ²³
BONE 1 YEAR	1.45	4.606 · 10 ²³
BONE 5 YEARS	1.52	4.801 · 10 ²³
BONE 10 YEARS	1.56	4.878 · 10 ²³
PLASTIC WATER®-LR	1.029	3.333 · 10 ²³
LUNG INHALE	0.205	0.668 · 10 ²³

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MODEL 007TE INCLUDES

QTY	DESCRIPTION
1	Tissue Equivalent CT Dose Phantom Body
5	Tissue Equivalent Rods

WEIGHT:	
007TE-01	1.2 kg (2.7 lb)
007TE-02	2.3 kg (4.9 lb)
007TE-03	3.4 kg (7.5 lb)
007TE-04	4.4 kg (9.7 lb)
007TE-05	5.9 kg (13.1 lb)
007TE-06	8.9 kg (19.5 lb)
007TE-07	11 kg (24 lb)
007TE-08	16 kg (35.6 lb)
007TE-11	1 kg (2.1 lb)
007TE-12	1.7 kg (3.7 lb)
007TE-13	2.7 kg (5.9 lb)
007TE-14	3.5 kg (7.7 lb)
007TE-15	4.7 kg (10.3 lb)
007TE-16	7.1 kg (15.8 lb)
007TE-17	8.6 kg (19 lb)
007TE-18	13 kg (28.4 lb)
007TE-21	2.8 kg (6 lbs.)
007TE-22	4.7 kg (10 lbs)
007TE-23	5.6 kg (12 lbs.)
007TE-27	6.7 kg (15 lbs.)

MATERIALS:	Tissue Equivalent epoxy materials
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ADDITIONAL OPTIONS

PART NO.	DESCRIPTION
700-QA	CT Imaging QA Kit for ATOM® & CT Dose Phantoms


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