

CIRS Tissue Equivalent Materials

Simple, convenient and accurate simulations for therapy dose determinations

CIRS Tissue Equivalent Materials have a variety of uses in both diagnostic and therapeutic medical physics.

They allow simple, convenient and accurate simulations for therapy dose determinations. These materials have the absorption and scattering properties within 1% of living tissue. Tissue Equivalent Materials are user friendly and provide adequate simulations for electron and photon applications between 0.01 and 100 MeV.

CIRS Tissue Equivalent Materials are available with slab sizes ranging from 10 x 10 cm to 40 cm x 40 cm and thicknesses of 0.1 cm through 7 cm. Slabs can be manufactured to accept detectors in standard or custom locations.

Materials are easily machined and can be glued together to create thicker bolus of material.

CIRS Standard Tissue Equivalent Materials

Bone

- Average
- Cortical
- Trabecular

Lung

- Inhale
- Medium

Soft Tissue

- 100% Glandular
- 100% Adipose
- 30% Gland/70% Adipose
- 50% Gland/50% Adipose
- 70% Gland/30% Adipose
- BR12

Other formulations are available upon request. Not all tissue equivalent materials are available in all thicknesses.

Chamber Cavities for Plastic Water® and other CIRS Dosimetric Phantoms

CIRS offers a variety of dose phantoms that accommodate common ionization chambers. Solid plugs are also available to fill cavities not in use. When ordering a phantom for use with an ionization chamber, the Chamber Cavity Rods are not included with the phantom and must be purchased as a separate line item. CIRS assigns a CIRS cavity code that will accommodate a wide variety of ion chambers. Please specify the exact chamber you are using and the corresponding CIRS Cavity Code when ordering. CIRS Cavity Codes are available at www.cirsinc.com/support

CIRS ACCOMMODATES IONIZATION CHAMBERS FROM:

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|-----------------------|--------------------|
| • Applied Engineering | • Best Medical |
| • Attix | • PTW |
| • Capintec | • Radcal |
| • Exradin | • RTI |
| • Farmer | • Scanditronix |
| • Far West | • SFD |
| • Fluke | • Standard Imaging |
| • Innovision | • Sun Nuclear |
| • Multidata | • TN MOSFET |
| • Nuclear Enterprise | • Victoreen |
| • Philips | • Wellhofer |

