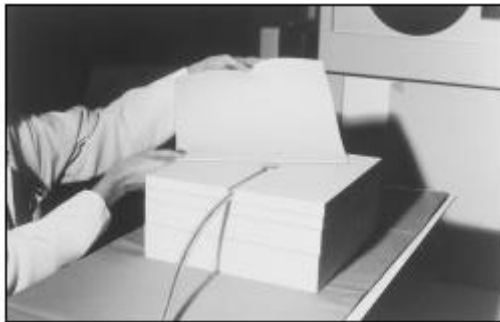




## PLASTIC WATER

With Plastic Water from Nuclear Associates, you'll be able to calibrate photon and electron beams within 0.5% of true water dose, and do it quickly, easily and cost-effectively!



Plastic Water is a unique, solid phantom material that will change the way you perform high-energy calibration in both electron and photon radiation therapy. With Plastic Water from Nuclear Associates, you'll achieve the results you want without spending extra time, effort or money. Why? Because Plastic Water is virtually identical to water in dosimetric properties, but easier to use.

### **Only Plastic Water:**

- Agrees with true water within  $.5\% \pm .04\%$  above 7 MeV.
- Won't break or crack, even under impact.
- Provides the closest dosimetry characteristics to natural water, over the entire therapy energy range.
- Allows for easy and accurate calibration and energy checks.
- Needs no correction factors, making it fast, easy and convenient to use.
- Is available in a wide range of thicknesses, starting as low as 0.1 cm, to meet all of your calibration needs.
- Is compatible with a variety of chambers, making it the most versatile solid phantom material available. (Custom cavities are available to accommodate any ion chamber on the market; simply provide detailed drawings when ordering.)
- Includes a 5-Year Warranty!

High-energy calibration in radiation therapy doesn't have to be difficult, time-consuming or costly. With Plastic Water, you'll never be bothered with cumbersome water tanks or charge storage problems again.

## **PLASTIC WATER CAN BE DRILLED TO ACCOMMODATE THE FOLLOWING CHAMBERS:**

**Manufacturer's**

**Model No. Description**

**30-751, 30-752**, Wellhöfer Farmer-type Ionization Chambers

**30-753**

**30-716, 30-744**, Wellhöfer Thimble Ionization Chambers

**30-749, 30-750**, Wellhöfer Roos-type Parallel Plate Ionization Chamber

**30-728**

**2507** Nuclear Enterprises (NE) Chamber

**2507/3A** Nuclear Enterprises (NE) 0.6 cc Farmer Chamber with 0.25-2 mV Cap

**2505, 2571** Nuclear Enterprises (NE) 0.6 cc Farmer Chamber without buildup cap

**2581** Nuclear Enterprises (NE) 0.6 cc Robust Ion Chamber

**30-316, -317** PTW 0.3 cc Ion Chamber (Beam Plotting)

**30-349** PTW Transit chamber

**30-350** PTW 0.1 cc Ion Chamber (Beam Plotting)

**\*30-351, -352** PTW 0.66 cc Farmer-type Chamber without buildup cap

**\*\*30-329** PTW Markus Electron Beam Chamber

**550-6** Victoreen Orthovoltage Diagnostic Chamber

**PR-05** Capintec Wide Range Diagnostic Chamber

**PR-06C** Capintec Farmer Replacement Chamber

**PR-06G** Capintec Farmer-Type Chamber with Fully-Guarded Stem

**Exradin T1** Chamber

## **Plastic Water pre-drilled for standard cylindrical chambers; others priced on request.**

**74-608** 2.0 x 30 x 30 cm

**74-608-2020** 2.0 x 20 x 20 cm

**74-608-2525** 2.0 x 25 x 25 cm

**74-608-4040** 2.0 x 40 x 40 cm

**74-608-3290** Drilled for \*30-329 (see above)

**74-608-3510** Drilled for \*\*30-351 with cap (see above)

**74-608-3511** Drilled for \*\*30-351 No cap (see above)

**74-619** Any Cavity Drilled in Plastic Water

**74-619-1000** Plug for Any Cavity Drilled in Plastic Water

## **Film Dosimetry Cassettes**

**74-607** Plastic Water Film Cassette, 8" x 10"

**74-607-1012** Plastic Water Film Cassette, 10" x 12"

## ORDER PLASTIC WATER AS A SET AND SAVE!

### Model 74-613 Therapy-Range

5.5 MeV Electron Calibrations, and Higher

30 x 30 cm

Weight of Set: 10 lbs (4.5 kg)

Quantity	Thickness (cm)	Quantity	Thickness (cm)
1	0.1	1	0.5
2	0.2	1	1.0
		1 (Drilled for chamber)	2.0

### Model 74-614 Therapy-Range

5.5 MeV Electron and Photon Calibration, and Higher

30 x 30 cm

Weight of Set: 40.3 lbs (18.3 kg)

Quantity	Thickness (cm)	Quantity	Thickness (cm)
1	0.1	2	2.0
2	0.2	1 (Drilled for chamber)	2.0
1	0.5	1	4.0
1	1.0	1	6.0

### Model 74-615 Therapy-Range

5.5 MeV Electron and Photon Calibrations, and Photon Beam Energy Checks

30 x 30 cm

Weight of Set: 47 lbs (21.4 kg)

Quantity	Thickness (cm)	Quantity	Thickness (cm)
1	0.1	2	2.0
2	0.2	1	4.0
1	0.5	1	3.0
1	1.0	1	6.0
1 (Drilled for chamber)	2.0		

Material: Epoxy

Thickness Tolerances:  $\pm .01$  cm

Density: 1.02 gm/cc

## INDIVIDUAL SLAB THICKNESSES, MODEL NUMBERS, SIZES

Thickness cm	20 x 20 cm	25 x 25 cm	30 x 30 cm	40 x 40 cm
0.1	74-600-2020	74-600-2525	74-600	74-600-4040
0.2	74-601-2020	74-601-2525	74-601	74-601-4040
0.5	74-602-2020	74-602-2525	74-602	74-602-4040
1.0	74-603-2020	74-603-2525	74-603	74-603-4040
2.0	74-604-2020	74-604-2525	74-604	74-604-4040
3.0	74-605-2020	74-605-2525	74-605	74-605-4040
4.0	74-606-2020	74-606-2525	74-606	74-606-4040
5.0	74-609-2020	74-609-2525	74-609	74-609-4040
6.0	74-610-2020	74-610-2525	74-610	74-610-4040
7.0	74-611-2020	74-611-2525	74-611	74-611-4040

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