

Plastic Water® Phantom Materials

Plastic Water® is resilient, will not break easily under impact, and is easily machined. The advanced casting methods assure void-free product.

Two formulations are available:

Plastic Water® – The Original

Permits calibration of photon and electron beams within 0.5% of true water dose, from 150 keV to 100 MeV. Ideal for general high energy calibration work. Available in 30 x 30 cm and 40 x 40 cm sizes.

Plastic Water® DT

This improved diagnostic/therapy formulation is optimized to cover CT energies for radiation planning and dose verification in IMRT. It mimics true water within 0.5% from 50 keV to 25 MeV. Available in 30 x 30 cm size only.

Thick.	Plastic Water – Original		Plastic Water DT
	30 x 30cm	40 x 40cm	30 x 30cm
0.1 cm	PW-3001	PW-4001	PWDT-3001
0.2 cm	PW-3002	PW-4002	PWDT-3002
0.5 cm	PW-3005	PW-4005	PWDT-3005
1 cm	PW-3010	PW-4010	PWDT-3010
2 cm	PW-3020	PW-4020	PWDT-3020
3 cm	PW-3030	PW-4030	PWDT-3030
4 cm	PW-3040	PW-4040	PWDT-3040
5 cm	PW-3050	PW-4050	PWDT-3050
6 cm	PW-3060	PW-4060	PWDT-3060
7 cm	PW-3070	PW-4070	PWDT-3070

Features:

- ▶ Scatters and attenuates x-rays the same way as water without storage charge problems
- ▶ Calibrate photon and electron beams within 0.5% of true water dose
- ▶ Five year warranty

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Custom cavities are available to accommodate any therapy ion chamber in sections of any size and thickness over 2 cm. Use the above model numbers and add appropriate suffix. The table below lists the most popular chambers.

Chamber Model	Suffix	Chamber Model	Suffix
0.6 cc Farmer	-501	A1SL	-531
0.2 cc Farmer	-517	A14SL, T14SL	-528
FC23C	-542	A16	-540
PR-06C	-507	N23343, N34035	-549 **
A12	-513	A10	-549 **
N31003, N31013	-511B	PPCo5	-549 **
N31002, N31010	-511C	N34001	-504
N31005, N31011	-511C	PPC40	-530
N31006, N31014	-518	P11, A11	-512 *
N31009, N31015	-550	N23342	-519
CCo1	-533	PS-033	-508
CC13	-532	NACP	-599

* Specify chamber serial #

Positives (plugs) are available at extra cost for all types

** This section is only 1.4 cm thick, chamber inserts from the bottom
For an additional fee, scribing is available for cylindrical chamber pieces. The scribing consists of a 10 x 10 cm field with crosshair markings to identify the chamber reference point.

PW-500 Standard Set

Plastic Water Original is available in standard assortment with advantageous pricing. The set measures 30 x 30 x 22 cm, consisting of: 1 x 0.1 cm, 2 x 0.2 cm, 1 x 0.5 cm, 1 x 1 cm, 2 x 2 cm, 1 x 4 cm, 2 x 5 cm, and 1 x 2 cm with chamber cavity (specify chamber type)

Specifications

Water equiv., PW: ±0.5% 150 keV to 100 MeV
 Water equiv., PWDT: ±0.5% 50 keV to 25 MeV
 Material: epoxy resins
 Density, PW: 1.03 g/cm³
 Density, PWDT: 1.0398 g/cm³
 Thickness tolerance: ±0.01 cm

