



**Expect Service**

**Radiation Products Design Inc**

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## INSTRUCTIONS

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### RPD INFORMATION

<b>Address</b>	5218 Barthel Industrial Drive Albertville, MN 55301
<b>Website</b>	<a href="http://www.rpdinc.com">www.rpdinc.com</a>
<b>Email</b>	<a href="mailto:sales@rpdinc.com">sales@rpdinc.com</a>
<b>Phone</b>	763-497-2071 or 800-497-2071
<b>Fax</b>	763-497-2295

### RPD PRODUCT INFORMATION

<b>Item Number</b>	<b>Description</b>
RT-1908-4	Aquaplast RT Bolus, 4.8mm, 7cm x 22cm
RT-1910-4	Aquaplast RT Bolus, 4.8mm, 20cm x 23cm
RT-1913-3	Aquaplast RT Bolus, 3.2mm, 12" x 12"
RT-1913-4	Aquaplast RT Bolus, 4.8mm, 30cm x 30cm
RT-1930-4	Aquaplast RT Bolus, 4.8mm, 43cm x 43cm
RT-1931-4	Aquaplast RT Bolus, 4.8mm, 30cm x 45cm

## INTRODUCTION

Ideal for hard-to-bolus areas such as: chest wall, nose, parotid, groin, ears, and any irregularly surfaced anatomical feature. The attenuation characteristics of this product are comparable to other polymer-based products; however, its physical properties are superior.

The Aquaplast RT® Custom Bolus softens in hot water and becomes moldable just like Aquaplast. It reduces setup time, and unlike other products, it minimizes air gaps and day-to-day variability.

## FEATURES

- No mixing, No wet gauze
- Available in sheet or pellet form
- Won't dry out or change shape

## EQUIVALENCIES

3.2 mm thickness is equivalent to 0.32 cm bolus.

4.8 mm thickness is equivalent to 0.5 cm bolus.

## DIRECTIONS

1. Place the supplied nylon mesh in the bottom of a shallow water bath, and then a large, unfolded paper towel on top of the mesh in the bath, pre-heated to approximately 165 degrees Fahrenheit.
2. Place desired size of Aquaplast RT Bolus into the hot water and allow it to turn clear as glass, with no whiteness/opacity to the material. Once clear, remove the bolus by the ends of the mesh and allow the excess water to pour off the bolus into the pan. Next, lay the bolus on a flat surface to check the temperature (you have a few minutes working time, so take your time). Check temperature by placing the inside of your wrist on the material, just as you would check baby formula on your wrist. Allow it to cool if necessary.
3. Moisten the area of the patient skin surface for application during simulation by wetting the target area with hand

lotion, a water atomizer, or wipe on mineral oil with a paper towel. Softened Aquaplast RT Bolus can be sticky, like a bandage to dry skin; pre-moistening the skin makes it easy to apply and remove. This step is only necessary during simulation.

4. Once you have determined that the material is at a comfortable temperature, lift the Aquaplast RT Bolus on the mesh and paper towel and turn it over upside down on the application area (this is not necessary for small pieces). Peel off the layer of nylon mesh and then the paper towel (this technique prevents stretching of the material).
5. Once the Aquaplast RT Bolus is applied to the target area, be careful not to stretch it, and mold the material using only light pressure to match the contours of the patient anatomy and hold.
6. If you like, while the Aquaplast RT Bolus is opaque, outline the edges of the disease on the bolus with a Sharpie pen (dot technique is easiest), as well as mark it for S – superior, I – Inferior, L – Left, R – Right, patient name and distance.
7. To speed up the cooling process, you may use a cotton towel soaked in cold water and wrung out (for large bolus pieces), and a small cotton washcloth (for small bolus pieces), and lay it on top of the bolus. Turn the towel over every 20 seconds or so, until the bolus is completely white (you may need to re-soak and wring out the towel in the cold water if the towel has become warm). Using the wet towel technique will cause 4.8mm bolus to harden in approximately five minutes. Once the bolus has hardened, it should be quenched in cold water to completely set.
8. Check the underside of the Aquaplast RT Bolus to make sure you cooled it down sufficiently. The bolus should be as white as it was when new, and cool to the touch. Removing the Bolus while it is still warm will cause it to warp, and will thus not fit correctly during treatment. If the Aquaplast RT Bolus does not fit properly during treatment, due to swelling or decrease in target volume, simply re-soften it in the

water bath, repeating the above steps. It can only be re-softened for use on the same patient, as the FDA classifies it for single patient use.

**NOTE:** To accelerate the cooling time it is recommended that when using two (2) 4.8mm bolus pieces, place the first 4.8mm piece over the contour area and let it cool: then place a second piece over the first and let it cool.

## CLEANING AND STORAGE

Bolus should be stored in a cool, dry location out of direct sunlight. Finished moulds can be cleaned between treatments with soapy water, commercially available mouthwash, or a diluted peroxide solution. Make sure to rinse cleaning solutions off completely before placing the mould in storage.

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