

# AQUAMEX™ WATER MIX OXYPHOSPHATE INVESTMENT



**An Oxyphosphate-Bonded Investment That Uses Water as a Binder**  
 Provides smooth castings with a short working time. Used to cast precious and nonprecious, high temperature alloys for partial denture frames. Burnout in a gas or electric oven.

## Duplicating

Soak master model in water for 30 minutes. Blow off excess water from model and duplicate with Multiflex™ or Uniflex™ duplicating material. Once duplicating material is hard, totally immerse the flask and duplication material in a warm water bath at 110-115 °F (43-46 °C) for 5-10 minutes.

## Making a Model

	Mechanical Mix	Hand Mix
<b>Powder</b>	200 gm	200 gm
<b>Water</b>	22 ml (0.78 fl oz)	23 ml (0.74 fl oz)
<b>Mix Time</b>	60 seconds with vacuum	90 seconds

Use cold water to extend working time.

**NOTE:** Investment should reach a semi-fluid viscosity for a 200 gram mix, up to 2 ml can be added to reach a thinner mix.

Remove impression from water bath and gently blow out excess water. Fill impression with investment while vibrating. Remove from vibrator. Allow model to harden for 20 minutes then remove from the impression. Trim model, place in 375-425 °F (190-218 °C) oven for 45 minutes. Then while hot, dip it for 40 seconds in model dip. Remove from dip. Allow to dry in a way so no pooling occurs. After 30 minutes wax-up. Paint the wax-up with a very thin coat of Protective Coat Liquid and shake off any excess. Place and stick model on ring base and over that, the ring.

## Investing

	Mechanical Mix	Hand Mix
<b>Powder</b>	600 gm	600 gm
<b>Water</b>	70 ml (2.37 fl oz)	73 ml (2.47 fl oz)
<b>Mix Time</b>	60 seconds with vacuum	90 seconds

With ring on vibrator, pour investment into ring until wax-up is covered. Vibrate mix out of ring until there is a thin bubble-free thin coating covering the wax-up. Vibrate the mix back into the ring until filled. Remove the ring immediately from vibrator. Bench set for 60 minutes.



## RANSOM & RANDOLPH

3535 Briarfield Boulevard | Maumee, OH 43537 USA  
 800.800.7496 | 419.865.9497 | 419.865.9997 (FAX)  
 www.ransom-randolph.com



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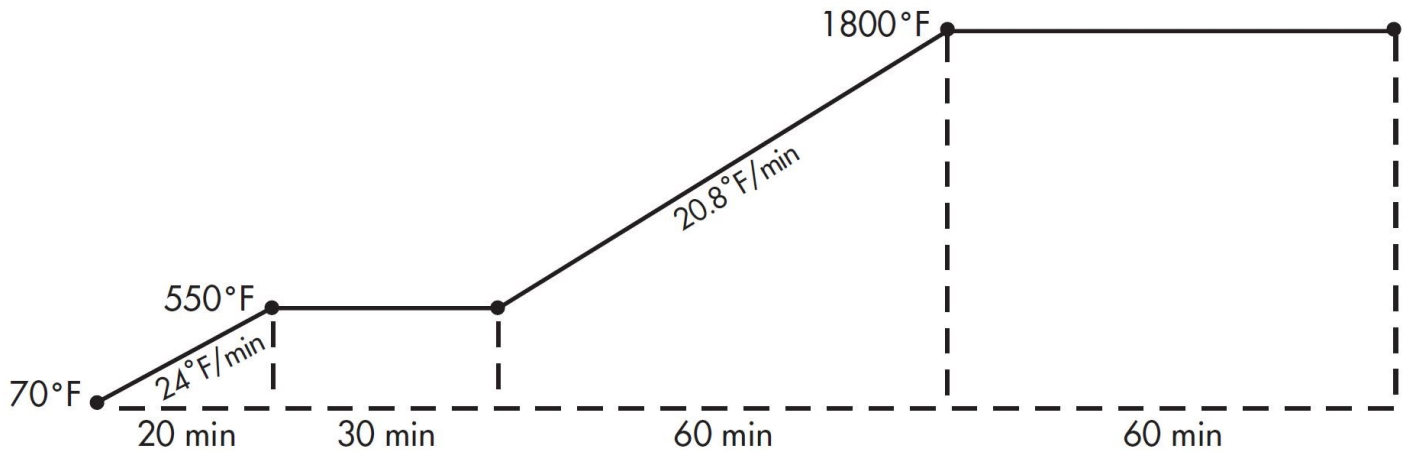
Ransom & Randolph GmbH  
 Leipziger Straße 40 | 04571 Rötha Germany  
 +49 342 06373999

Investing with Innovation™

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## Burnout

From	To	In	Hold	Raise To	In	Hold
70°F (21°C)	550°F (290°C)	20 min	30 min	1800°F (982°C)	60 min	60 min



## Storage

Keep investment pail tightly closed when not in use (the material is hygroscopic and can deteriorate).

## Safety

Danger. Contains crystalline silica. May cause cancer by inhalation. Causes damage to lungs through prolonged or repeated exposure. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product. In case of inadequate ventilation wear respiratory protection. Get medical advice/attention if you feel unwell. See SDS for more information.

## Technical Tips

For additional information and recommendations, refer to the Dental Investment Defect Analysis Guide Technical Tip available for download at [www.ransom-randolph.com](http://www.ransom-randolph.com).

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