

# MULTI-VEST<sup>®</sup> INVESTMENT



## Designed for Casting Using Traditional Methods

This phosphate-bonded dental investment is specifically designed for casting cobalt-chromium and other high fusing precious and non-precious alloys. Formulated using R&R's proprietary FG Cristobalite, it provides a smooth casting finish with a short setting time, reducing the risk of flashing. Multi-Vest investment is perfect for crowns, bridges, and partial denture frames. With a quick working time, Multi-Vest investment ensures efficiency and reliability in dental casting.

Distilled water is required for optimal results. Universal Expansion Liquid can be used to adjust expansion as necessary, but is not required for use with for Multi-Vest investment.

## Typical Material Properties\*

Color	Pink
Water/Powder Ratio	12 cc water to 100 grams powder by weight
Set Time	4½ - 5½ minutes
Set Expansion	0.1%
Compressive Strength	1,800 psi

\*These results are based on the testing methods, frequency and procedures of Ransom & Randolph or its approved suppliers. The levels referenced herein are only for general guidance and do not constitute a firm specification.

## Application Instructions

### Cast

Duplicate master cast with Uniflex<sup>™</sup> or Multiflex<sup>™</sup> duplicating materials.

1. Add 100 grams powder to 12 cc water and mechanically spatulate for about 20 seconds.  
**Note:** For a large or unusually complicated cast, it may be necessary to use Universal Expansion liquid, which increases the setting and thermal expansion of the investment. Using Universal Expansion liquid will depend entirely on what the technician considers an accurately fitting cast.
2. Vibrate mix into duplicating material and allow to set from 45 minutes to one hour.
3. Dry cast in oven at 200 °F for approximately one hour.
4. Use a rosin or beeswax dip at a temperature of approximately 200 °F, or a cast spray, to prepare cast surface for plastic patterns.
5. Replace casts in drying oven to absorb any surplus rosin or beeswax on cast surface.
6. Proceed with wax-up.

### Painting & Investing

The wax and plastic patterns should be sprayed with a detergent or commercially available surface tension reducing agent. Paint the pattern with investment mixed in a ratio of 14 cc water to 100 grams investment. Allow to set. Invest the painted pattern with investment mixed at 14/100 ratio. A vacuum technique may be used. Either a one-piece casting ring or a removable split ring may be used. It is not necessary to have a casting ring around the investment during burnout or casting.



## RANSOM & RANDOLPH

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Made in the USA

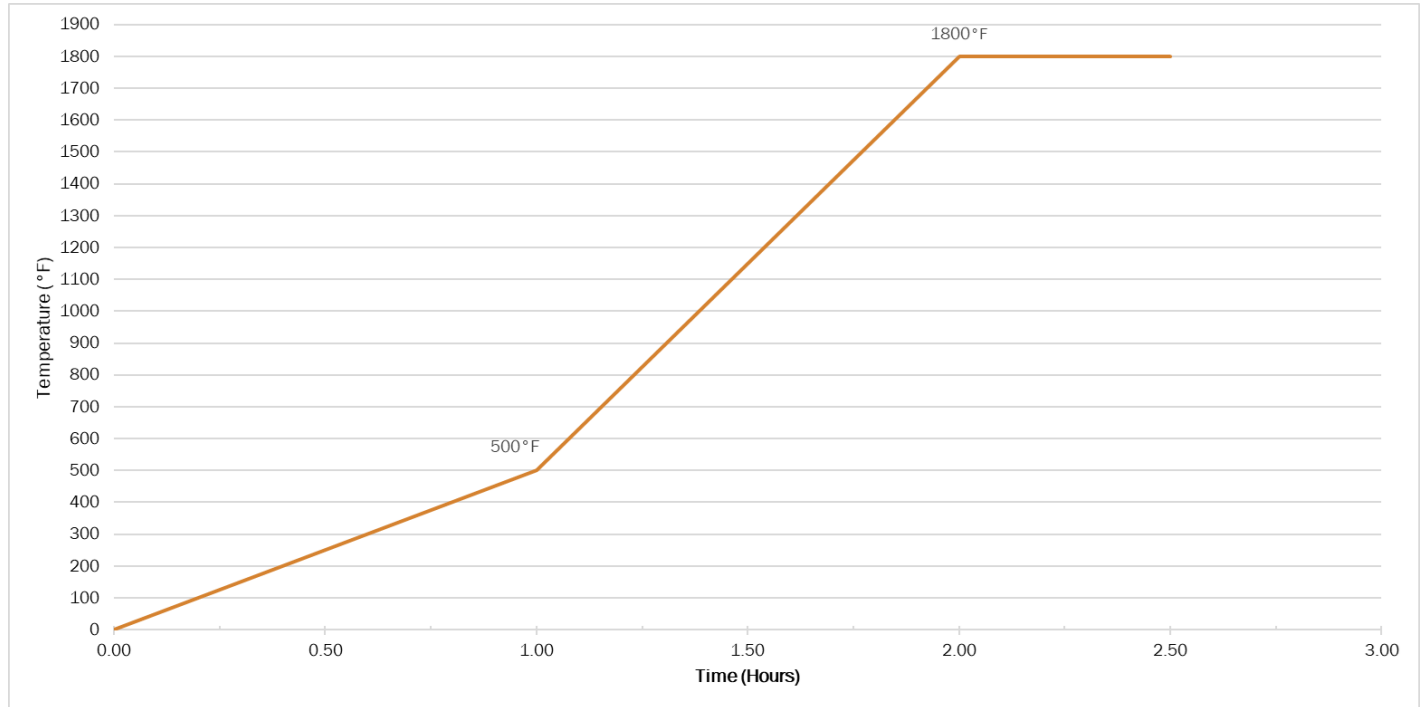
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## Wax Elimination/Burnout

Allow ring to set one hour before burnout. If allowed to set longer, soak ring in water approximately 10 minutes before burnout. Place ring in cold furnace and heat to 500°F over one hour. Over the next hour, raise to 1800°F. Hold at 1800°F for 30 minutes or longer and cast as usual.



## Storage

Investment materials are subject to deterioration when exposed to the atmosphere. Store this product at 59-86°F. Keep container tightly closed once seal is broken to protect contents from moisture and high humidity.

## Safety

**North America:** Danger. Contains crystalline silica. May cause cancer by inhalation. Causes damage to lungs through prolonged or repeated exposure by inhalation. See SDS for more information.

**EU:** Danger. Contains respirable crystalline silica. Causes damage to lungs through prolonged or repeated exposure. See SDS for more information.

## Availability

### Multi-Vest investment

Package Size	Item Number
400 gram pouch (quantity of 30)	14292
33 LB (15 KG) pail	99010
50 LB (22.7 KG) pail	99011



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## Universal Expansion Liquid

Package Size	Item Number
32 ounces (0.95 L)	26410

To order, visit [shop.ransomrandolph.com](http://shop.ransomrandolph.com) or contact an authorized distributor. For a list of authorized distributors near you, visit [ransom-randolph.com/distributors](http://ransom-randolph.com/distributors) or contact your region's R&R Customer Service Team.

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