

# NEOLOY® 'E' INVESTMENT WITH ABC BINDERS



## An Ethyl Silicate Investment System Consisting of Investment and Three Liquids

Provides an extended working time for ease of use. Used to cast precious and nonprecious, high temperature alloys for partial denture frames.

### Duplicating

Soak master model in water for 30 minutes or 2 minutes under vacuum. Blow off excess water from model. Place it in duplicating flask (in 1.5" or 3.8 cm deep cold water) and pour Perflex® duplicating material. Wait about 30 minutes. Remove master model and totally immerse the flask with impression into a warm water bath 110-115°F (43-46°C) for 5-10 minutes.

### Mixing ABC Binders

Pour 21oz (621ml) of 'B' into a clean empty plastic bottle with a screw cap. Measure 21oz of 'A' but pour only ½ into 'B'. Cap bottle, shake vigorously until mix gets hot. Unscrew bottle cap to relieve gas pressure, re-tighten cap, shake again and repeat these steps 2-3 times until mix gets to maximum temperature. Unscrew cap, add the remaining 'A' and add 21oz of 'C'. Re-cap bottle, shake briefly. If using immediately, run cold water over tightly capped bottle until it cools to 72°F (22°C). Refrigerate unused amount. Refrigerated binder is good for 72 hours.

### Adjusting Setting Time for 'E' Investment using ABC Binders

Cold weather, cold liquid and/or powder extend setting time.

During warm weather extend setting time by using either cold liquid and/or powder.

### Making a Model

- Powder - 300gm
- Binder - 55ml

Mechanically mix. Then apply vacuum and fill mold while vibrating. Vibrate for 15 minutes. Pour off excess liquid and continue vibrating until investment sets, approximately 25-30 minutes. Bench set for at least 10 minutes before separating from flask. Trim model. Place in 375-425°F (190-218°C) drying oven for 45 minutes. Then dip model in hard model dip for 5-10 seconds. Remove and set model on its heel to prevent pooling.

Affix patterns to the model. Sprue in the normal manner. Spray with mist of debubbler. When dry apply a very thin coat of Protective Coat Liquid over the wax-up. Vigorously shake off excess and let dry. Affix model to ring base. Place ring over base and lute base to ring.

### Investing

- Powder - 600gm
- Binder - 110ml

Mix investment for 1 minute or until a uniform consistency. Pour into the ring until filled while vibrating contents. Pour off excess liquid and let set for 10 minutes. After initial set, release ring and trim off the top of investment. Bench set for 10 minutes.



## RANSOM & RANDOLPH

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



Made in the USA

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

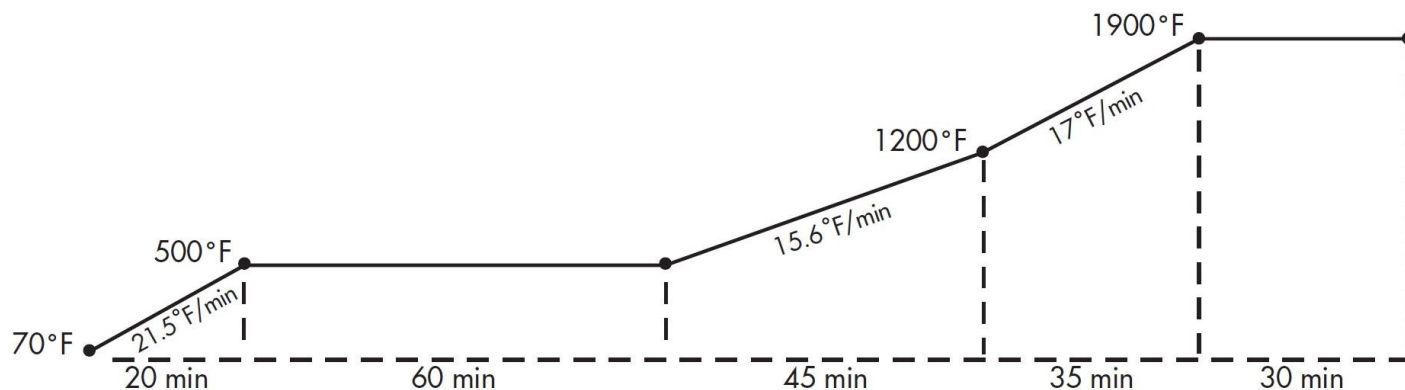
*Investing with Innovation™*

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## Burnout

Place ring at back of oven and crucible at the front. With oven door open, ignite pilot lights. Residual liquid vapors will burst into flames. Once flames have died out, take temperature.

| To               | Hold   | Raise to          | In     | Raise To           | In     | Hold   |
|------------------|--------|-------------------|--------|--------------------|--------|--------|
| 500°F<br>(260°C) | 60 min | 1200°F<br>(649°C) | 45 min | 1900°F<br>(1038°C) | 35 min | 30 min |



## Storage

Keep Neoloy 'E' investment container closed in a cool, dry area when not in use. Store ABC binders at 60-80°F (16-27°C).

## Safety

**ABC Binders:** Danger. Warning: Contains Ethylene Glycol. Portions of the amorphous silica may be converted to crystalline silica (cristobalite) when subjected to higher temperatures (1700°F/927°C). Exposure to respirable crystalline silica may cause lung disease and cancer. May cause damage to organs/kidneys through prolonged or repeated exposure. Do not breathe vapor, dust, or mist. May be corrosive to metals. Causes severe skin burns and eye damage. Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Get medical advice/attention if you feel unwell. See SDS for more information.

**Investment:** 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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