

# NEOLOY® 'E' INVESTMENT WITH ABC BINDERS



Neoloy 'E' investment is a three-part ethyl silicate investment for partial denture fabrication.

## 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.

*Continued on next page...*



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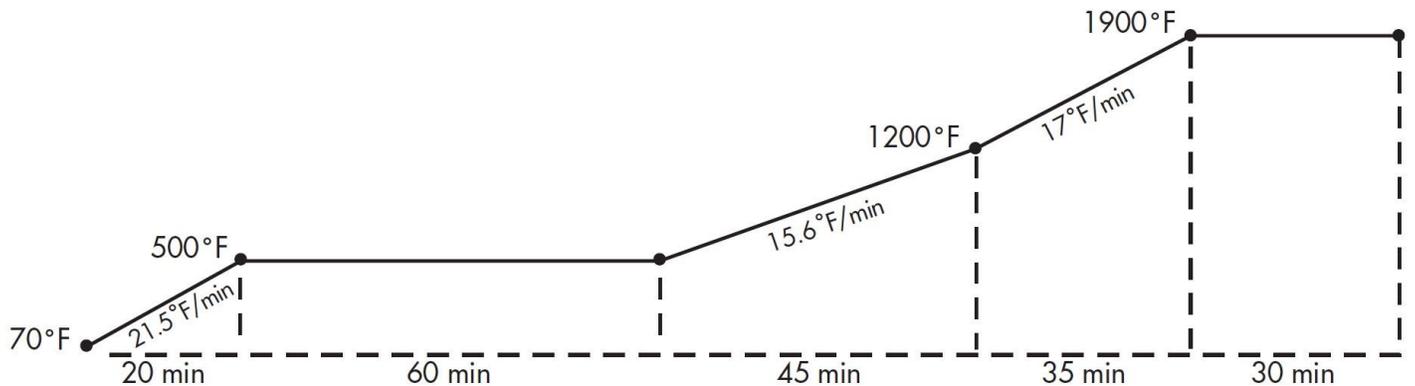
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## Burnout

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 (260 °C)	60 min	1200 °F (649 °C)	45 min	1900 °F (1038 °C)	35 min	30 min



## Precautions

Avoid skin or eye contact. Avoid breathing vapor. Wear protective equipment during handling. Wash thoroughly after handling. Keep container closed when not in use.

### **Danger** Crystalline Silica (Quartz)

May cause cancer by inhalation. Causes damage to lung through prolonged or repeated exposure by inhalation. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves, protective clothing, eye protection or face protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents and container in accordance with local and national regulations.

## Storage

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

## 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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