SC-X INVESTMENT



SC-X investment is based on the SC20 formula, however it contains a higher percentage of cristobalite, making it best suited for casting white gold.

- High compressive strength and low thermal expansion
- Can withstand rapid and high temperature burnouts without cracking
- Smooth lustrous surface quality with high details
- Recommended mixing ratio: 38-40 mL water to 100g powder

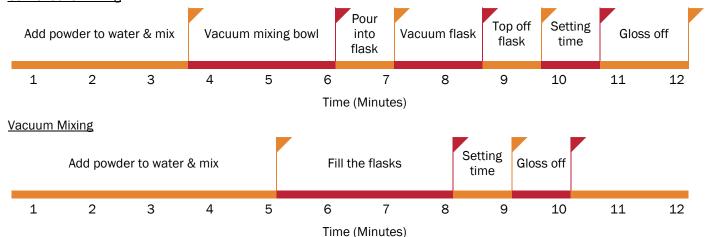
SC-X investment is used to form lost-wax molds for the casting of jewelry and fine art pieces with gold, silver and other metal alloys. SC-X investment is composed primarily of powdered silica (quartz), cristobalite (a form of quartz) and a gypsum (calcium sulfate) binder. Water is mixed on-site by user prior to use to form the mold.

Mixing Instructions

- Weigh investment.
- 2. Measure water.
- 3. Add investment to water.
- 4. Mix 3-3.5 minutes.
- Vacuum 20 seconds after boil.
- Pour into flask.
- Vacuum up to 90 seconds. 7.
- Let flask sit still for 2 hours.
- Preheat furnace 300°F (149°C). Note: do not preheat for multiple flasks.
- Remove sprue base.
- 11. Load into furnace.
- 12. Follow appropriate burnout cycle.

Recommended Working Time

Conventional Mixing



Work time: elapsed time between adding powder to the water and thickening of investment.

Water temperature: water should be 70-75°F (21-24°C). Colder water = extends work time; Warmer water = shortens work time.

Water quality: deionized (DI) or distilled.



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3535 Briarfield Boulevard, PO Box 1570 | Maumee, OH 43537 USA 800.253.4502 | 419.865.9497 | 419.865.9997 (FAX) | www.ransom-randolph.com

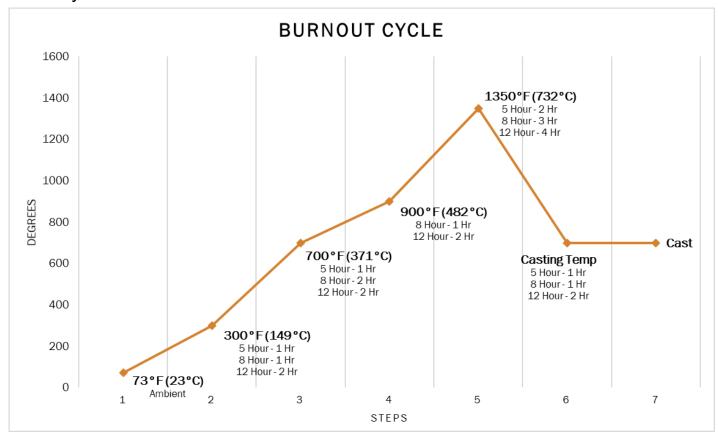






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Burnout Cycle



Casting Temperatures

Type of Ring	Temperature Range
Women's rings (intricate designs)	900-1000°F (482-538°C)
Men's rings (heavier designs)	700-900°F (371-482°C)
Note : During final 1-2 hours of burnout, adjust temperature so flasks are at correct casting temperature.	

Hold Time

Cycle Length	Size	
5 hour	2.5 in x 2.5 in (63 mmx 66 mm)	
8 hour	3.5 in x 4 in (89 mm x 100 mm)	
12 hour	4 in x 8 in (100 mm x 200 mm)	

Note: Graph is meant as a guide only. Adjustments should be made as necessary. 5, 8, and 12 Hour Cycles represent hold times only and do not include ramp time. Recommended ramp time of approximately 9°F (5°C) per minute.

Typical Material Properties*

Silica (SiO ₂) (Quartz & Cristobalite)	Calcium Sulfate (Gypsum)
60-80%	20-40%

^{*}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.



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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.

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