



Repli-Cast[™] is a high-quality, all-purpose casting and pressing investment that works well with both standard and rapid burnout. You have more command with Repli-Cast[™] due to the wider range of expansion controls. Repli-Cast[™] is a smooth pouring material that gives great surfaces and divests easily.

PHYSICAL PROPERTIES				
LIQUID / POWDER RATIO	22 ML / 100 G			
WORKING TIME	6 - 8 MINUTES			
SETTING EXPANSION	1.6 %			
THERMAL EXPANSION	0.65 %			
COMPRESSIVE STRENGTH	1,350 PSI (9.2 MPa)			

TWO-MINUTE MIX TIME		100 GRAM 22 ML :: 100 G			
			CONCENTRATION	LIQUID ML	WATER ML
	A	LLOY			
EXPANSION	MORE		100% 90%	22.0 20.0	0.0 2.0
	OPTIMUM	BASE NOBLE HIGH NOBLE	80% 75% 70%	18.0 16.5 15.0	4.0 5.5 7.0
	LESS		60% 50%	13.0 11.0	9.0 11.0
	CERAMIC				
	MORE		90% 80%	20.0 18.0	2.0 4.0
	OPT.	CROWNS, VENEERS, INLAYS, MODs	70% 60%	15.0 13.0	7.0 9.0
	LESS		50% 40%	11.0 9.0	11.0 13.0

MIXING

- Prepare liquid at suggested concentration following the mixing chart listed above or on the back of each envelope. Distilled water is recommended for dilution.
- Rinse bowl out with water and shake out excess. Always use separate mixing bowls for phosphate and gypsum investments.
- Add measured liquid to mixing bowl. Incorporate powder by hand spatulation for 10 -15 seconds.
- Mechanical mix under vacuum on slow speed (350-600 RPM) for 2 minutes (120 seconds). Higher RPM mixers may require decreased mix time (90 seconds).

For optimal results, store and use powder and liquid at room temperature between 20° C / 68° F and 25° C / 78° F.



BENCHSET

- Benchset for 15 minutes.
- Rinse the hot mold under tap water and trim glaze off the top of the mold before burnout.
- For optimal results, place in a preheated oven within 30 minutes of investing.

BURNOUT

Rapid Technique (Pre Heated Oven)

- Place Molds in preheated oven at alloy manufacturer's recommended temperature—up to 925° C / 1,700° F*. For higher temperatures place molds in oven at 925° C / 1,700° F then heat to final temperature at 14° - 20° C / 25° - 40° F per minute.
- *Maximum preheat entry temperature for the metal ring is 870° C / 1,600° F.

Molds allowed to set

to burnout by soaking in water for 1-3 minutes.

more than 12 hours should be re-wet prior

Heat soak at final temperature for 30 minutes. Add 10 minutes per each additional mold.

Standard Technique (Cold Oven)

- Place molds in oven at room temperature. Heat to desired temperature at 14° 20° C / 25° 40° F per minute.
- ▶ Heat soak at final temperature for 30 minutes. Add 10 minutes per each additional mold.

CASTING (ALLOY)

• Upon removal from the oven, immediately cast according to the alloy manufacturer's instructions.

PRESSING (PRESSABLE CERAMICS)

- Press according to ceramic manufacturer's recommendations.
- Use 200 gram mold for restorations requiring two ingots.

DIVESTING

- Allow metal castings and ceramic pressings to cool completely prior to divesting. **NOTE:**
 - For small volume mixes (less than 100 grams) decreasing the liquid/powder ratio approximately 2 mL/100 gram will increase expansion and improve surface quality.
 - For tight fits—increase liquid concentration or increase mix temperature; if using metal rings, you may also use a double liner.
 - For loose fits—decrease liquid concentration or decrease mix temperature (refer to Expansion Ratio Chart).
 - For large molds containing complex restorations or plastic sprues, runner bars or copings, the standard technique described above or a two-stage burnout technique is recommended.