

G-CERA VEST

REFRACTORY DIE MATERIAL

Prior to use, carefully read the instructions for use.

G-CERA VEST is a new type of phosphate-bonded refractory model material developed for production of porcelain laminate veneers with a view to its compatibility with G-CERA and other Porcelains. G-CERA VEST not only allows porcelain materials to be built directly upon itself, but also provides for sufficiently high strength to withstand repeated firings, and provide outstanding dimensional stability.

FEATURES

1. Superior strength
G-CERA VEST has sufficiently high strength to endure repeated firings.
2. Thermal Expansion curve matched to that of porcelain
Porcelain does not fracture.
3. Outstanding dimensional accuracy
Due to outstanding control of expansion and contraction, G-CERA VEST provides precise dimensions to produce extremely accurate porcelain veneers.
4. Glossy surfaces
Thanks to its unique granular formula, G-CERA VEST provides a glossy model surface producing porcelain veneers with accurate margins.
5. Excellent compatibility with G-CERA Porcelain
Because G-CERA VEST has been designed for compatibility with G-CERA and other Porcelains, it does not cause the porcelain to crack or separate from the model during the time of firing.



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PHYSICAL DATA

Item	Value
Powder / liquid ratio	33g powder to 6mL liquid
Setting time	7 minutes
Compressive strength (after baking)	52MPa (7,500psi)

DIRECTIONS FOR USE

1. MIXING

The powder / liquid ratio is 33g to 6mL. Proper consistency can be obtained with one pack of powder and one full measure of liquid. Care should be taken to dispense them accurately. Otherwise, proper physical properties will not be obtained.

Mix uniformly for 30 seconds using a vacuum mixer.

2. POURING THE IMPRESSION

Prior to pouring the impression, a wetting agent for wax patterns such as GC SURCAST should be applied to obtain a bubble-free model. After mixing the investment, quickly pour the mixture into the impression using a vibrator.

3. REMOVING FROM IMPRESSION

Remove the model from the impression about one hour after pouring.

Note : Avoid earlier removal as it will have a negative effect on strength and dimensional precision of the model.

4. DEGASSING THE MODEL

Gradually heat the model at the entrance of a ring furnace to avoid fracturing the model. Too rapid a rise in temperature will not allow moisture to escape. After drying and heating, place the model inside the ring furnace and heat to 1,292°F(700°C).

At 1,292°F, move the model into a preheated (1,292°F / 700°C) porcelain furnace and raise to 1,832°F (1,000°C) at a rate of 122~140°F (50~60°C) / min. under atmospheric pressure, and maintain this temperature for about 5 minutes.

Remove the model and bench-cool to room temperature.

Degassing the model can also be performed in a porcelain furnace, but phosphate-bonded refractories give off small amounts of ammonia gas which

affects the porcelain furnace. Therefore, a ring furnace is recommended to heat the model up to 1,292°F (700°C).

NOTES

1. If the liquid should be mixed with extraneous matter such as plaster, acid, table salt, etc. and fall below 32°F (0°C), it will turn into gel and can not be used again.
2. Keep both the powder and liquid away from direct sunlight. Store at room temperature of over 32°F (0°C).
3. Wear a dust mask to avoid inhaling powder dust.
4. Be careful not to get powder into eyes. In case of contact, immediately flush with water, and consult a physician.
5. Heat material in a well ventilated place to avoid inhaling gas caused during heating.
6. Do not mix the powder with any other refractory die material.
7. This product should be used only for the applications described in the instructions.

PACKAGES

1. Box of 30×33g powder
2. Bottle of 200mL liquid