

Instructions for Use of Dental Glass Ceramic Block

1. Product Basic Information

- a. Product Name: Dental Glass-Ceramic
- b. Restoration Product Class: Class II Medical Device
- c. Material Composition: Lithium disilicate glass-ceramic / Leucite glass-ceramic, including CAD/CAM milling blanks and heat-pressed ingots. Main raw materials consist of silica, lithium oxide, alumina, etc. Produced via controlled crystallization process, featuring excellent biocompatibility, superior aesthetic effect and mechanical strength.
- d. Available Specifications: Standard blanks and finished restorations for veneers, inlays, onlays, single anterior & posterior crowns.

2. Indications

For functional and aesthetic restoration of permanent teeth in adult patients:

- a. Inlay and onlay restorations for damaged anterior and posterior teeth;
- b. Minimally invasive veneer restorations for discolored anterior teeth or minor enamel defects;
- c. Single full crown restorations for anterior and posterior teeth under moderate occlusal load;
- d. Minimally invasive aesthetic correction for minor diastema and irregular tooth morphology.

3. Contraindications

- a. Patients with severe bruxism or habitual teeth clenching; excessive occlusal force may cause chipping or fracture of restorations;
- b. Severe tooth loss with insufficient residual tooth structure to retain and support the restoration;
- c. Patients with uncontrolled active periodontitis or periapical lesions; restorative treatment can only be performed after complete basic therapy;
- d. Patients allergic to glass-ceramic materials or any components of dental resin bonding systems;
- e. Minors with incompletely developed permanent tooth roots;

- f. Insufficient occlusal space or uncorrectable occlusal interferences.

4. Target Users & Authorized Operators

Target Patients: Adult dental patients who meet the above indications. Operation Restriction:

Fabrication and clinical lamination shall only be performed by licensed dentists. Processing, fitting or installation by non-professionals is prohibited.

5. Operating Procedures

5.1. Preoperative Tooth Preparation

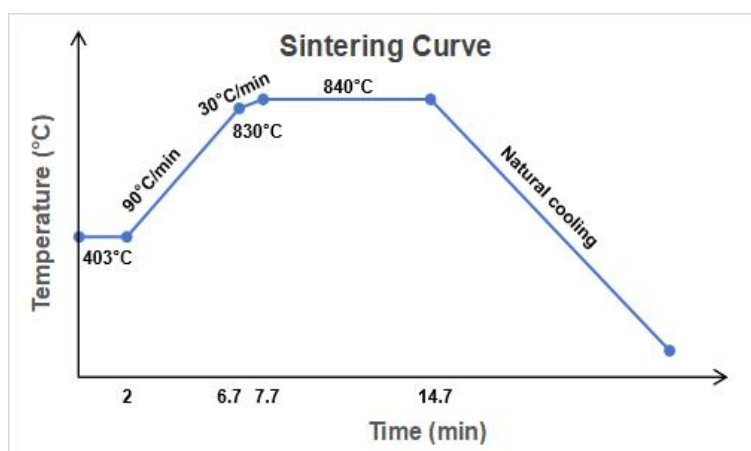
Complete oral radiographic and occlusal examination. Perform standardized tooth preparation and chamfer polishing, isolate the operative field with rubber dam. Thoroughly remove plaque, debris and contaminants from prepared tooth surface to keep the bonding area dry, clean and grease-free.

5.2. Preprocessing of Restorations

Mill or heat-press the blank according to restoration design, followed by staining, glazing and crystallization sintering as required.

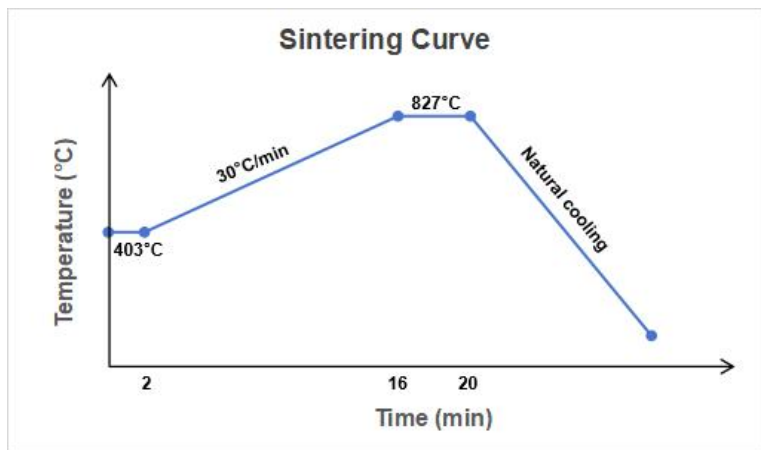
Glass Ceramic_VITA 16-Shade Series / MT< (BL1, BL2, BL3, BL4)

Initial temperature	Drying time	Heating rate	Holding temperature	Residence time	Heating rate	Holding temperature	Residence time	Cooling
403°C	2min	90°C/min	830°C	10s	30°C/min	840°C	7min	Natural cooling



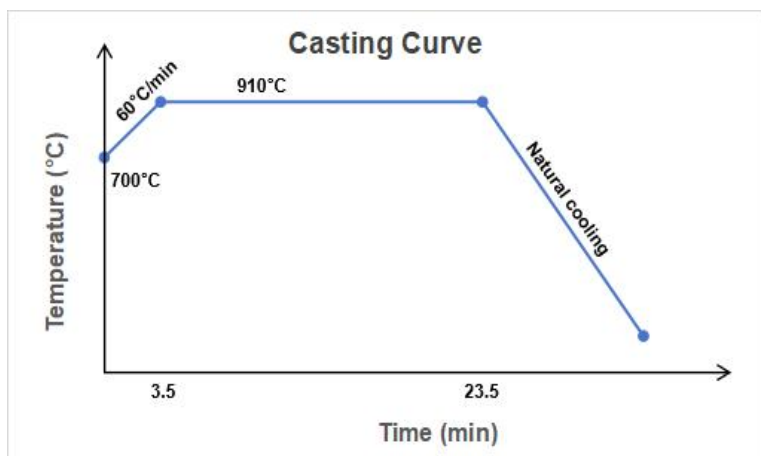
Glass Ceramic_Amber Series / HT (BL1, BL2, BL3, BL4)

Initial temperature	Drying time	Heating rate	Holding temperature	Residence time	Cooling
403°C	2min	30°C/min	827°C	4min	Natural cooling



Press Ceramic Casting Temperature and Program Settings

Embedding circle	Initial temperature	Heating rate	Holding temperature	Residence time	Cooling
100g	700°C	60°C/min	910°C	20min	Natural cooling



5.3. Clinical Resin Lamination

Prior to bonding, the ceramic inner surface must be etched with hydrofluoric acid and coated with silane coupling agent to guarantee reliable bonding strength. Use dedicated dental resin cement and strictly follow IFU of matching bonding materials. Apply bonding agent evenly, fully seat the

restoration with gentle pressure. Perform segmented sufficient light curing, and remove excess overflow resin immediately to avoid long-term gingival irritation.

5.4. Occlusal Adjustment & Fine Polishing

After full curing, identify premature contacts and occlusal high spots with articulating paper, eliminate all occlusal interferences. Fine-polish occlusal surfaces, margins and interproximal areas of the restoration to achieve tight marginal adaptation, comfortable occlusion and recover normal masticatory function.

6. Precautions

- a. This product is a single-use customized restorative consumable. Reuse, rework and resale are forbidden.
- b. Glass-ceramic is brittle in nature. Avoid chewing hard foods such as nuts and bones within one month after placement to prevent ceramic chipping or debonding.
- c. Maintain proper oral hygiene after treatment, receive regular scaling and recheck-ups to reduce restoration discoloration, abrasion and periodontal inflammation.
- d. Patients or unlicensed personnel are not allowed to grind or modify restorations without professional guidance, which may result in breakage, marginal gaps and occlusal disorders.
- e. Discontinue use and return to clinic immediately if restoration loosens/fractures, persistent toothache or continuous gingival swelling & bleeding occurs.

7. Storage Requirements

Store in a clean, dry, cool and ventilated place. Storage temperature: 10°C ~ 30°C; relative humidity: 30% ~ 75%. Keep away from corrosive gas and direct sunlight. Seal tightly to prevent collision damage and dust contamination.

8. Shelf Life

5 years under unopened and proper storage conditions.

9. Adverse Reactions

This material features outstanding biocompatibility; no obvious adverse reactions occur under standardized clinical use.

10. Waste Disposal

Product milling waste, grinding dust and waste restorations are ordinary non-hazardous ceramic wastes, which do not require special hazardous waste treatment.

11. Manufacturer Information

Company Name: Zhengzhou Yp Dental Co., Ltd.

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