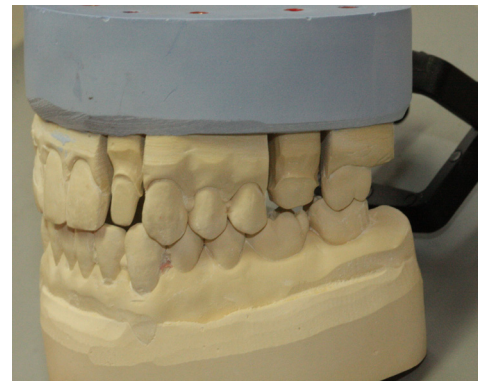


Guideline for Superior Outsourced Zirconia Restorations

1. Provide model work to outsourcing facility.

- Provide pinned/separated, articulated working model
- Trim dies with gentle slope beneath the margin. Avoid 'pointed' margins!
- Block out undercuts, or bubbles with scanning wax
- DO NOT mark or seal the stone or apply die spacer!!!
- For multiple unit or complex cases, include pre-op and/or diagnostic waxup



2. Provide complete prescription to outsourcing facility.

- Bridge, single unit or multiple unit
- Coping thickness and buildup requirements
- Tooth shade requirements
- Special margin requirements



3. PACKAGE CAREFULLY for shipment!!!!

- Fluoride foam trays or bubble wrap on arch for additional protection

4. Upon receipt, inspect coping under magnification. (10x or better)

- Check fit to master die. Passive fit without rotational or translational movement.
- Check marginal integrity with 10x scope/loupe. Should be completely closed, properly seated, and tapered.
- Check external contours. Appropriate incisal/occlusal form and thickness, rounded line angles, and optimal porcelain support/clearance.
- Second fit check to an original die/solid model.
- If adjustment is necessary, a handpiece with water spray using fine diamond is recommended.

5. Surface conditioning

- Steam or vapor jet the framework.
- If you chose to sandblast the framework, use media 50 micron or smaller, applied at less than 30 psi.

6. Porcelain Build-up

- Porcelain buildup should not exceed more than 1.5 mm
- Fire a 0.2mm or less slurry of porcelain as a "bond coat." Fire 50 degrees C higher than first dentin bake. Hold at high temperature for 1 minute under vacuum.
- Rate of temperature climb should be 40 degrees C per minute during all firings.
- Slow cool - especially during glaze cycle - three to five minutes. Cool time depends on number of units being fired and size of framework.
- Use honeycomb trays and metal pegs. Only use small amounts of putty.
- Lightly sandblast the inside surface of the restoration to remove any residual porcelain and prepare the zirconia for cementation.

***** Porcelain furnaces should be calibrated weekly to ensure proper vitrification. *****

Guideline for Adjusting Zirconia

Water spray, dipping or dripping is required during any adjustments with high-speed handpiece/diamonds!

Use only fine or medium grit diamonds!

Shape	Surface	Manufacturer	Number
Small Round	Internal surface adjustments, full-contour anatomy	SS White	GWZ 801-014
Large Round	Bulk occlusal reduction, underside of bridge connectors, cervical 'necking'	SS White	GWZ 801-018
Round End Taper	Margins, underside of bridge connectors	SS White	GWZ 856-018
Football	Margins, bulk occlusal reduction	SS White Premier	GWZ 379-023 283.4 F
Rubber Wheel	Gentle contouring, polishing (no water necessary)	NTI/Axis	Ceraglaze P3001