

3:45 Zirconia IFU (Instruction for Use)

Pre-Shaded Mono Layer Strength 1100Mpa Translucency 48%

Indications	<p>Zubler 3:45 is indicated for use in the construction of custom all ceramic restorations in the anterior and posterior region, including full arches and implant supported full arch constructions.</p> <p>Caution: Prescription required. Federal law restricts sale of this material to dental health professionals.</p>
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Device Description	<p>Zubler 3:45 is a zirconia-based ceramic provided in various shapes such as round and/or square, are for use in the manufacture of dental all ceramic crown substructures and are classified into ISO 6872 Type 2 Class 5.</p> <p>Zubler 3:45 is used in the manufacture of ceramic restorations through a milling process utilizing dental CAD/CAM systems (Computer Aided Design/Computer Aided Milling System). Many different shades are offered to meet the needs of each patients' tooth color. Various shapes are offered to accommodate various milling machine jigs.</p>
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Preparation	<ol style="list-style-type: none"> 1. Inspect the product for damage, impurities, and/or defects. 2. Confirm the exterior shape of the product is appropriate for use. 3. Confirm the product is the desired shade, size, and requirements intended for use. 4. Confirm the product meets the prescription requirements
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Instructions For Use	<ol style="list-style-type: none"> 1. Always Install the product into the correct jig of the desired milling equipment. 2. When preparing the cam, please be mindful of the shrinkage factor of the material prior to milling. The shrinkage factor can be found on the disc and/or on the box of the material. <ol style="list-style-type: none"> a. Example: The minimum thickness; before sintering, approx. .6mm, after sintering, approx. 0.5mm. 3. Always check milling machine burs prior to proceeding with the milling process 4. Proceed with the milling process. 5. After milling, remove the bridge or arch carefully. 6. If wet milling or if color liquids are used: Use a drying oven or machine or to dry the bridge or arch prior to placement in the sintering oven. 7. Place into the sintering oven being mindful of placement and proximity to other work. Always check the sintering schedule prior to sintering. Do not include other types of zirconia or PTCR rings with the sintering cycle.
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Sintering parameters for approved (verified) ovens

IMPORTANT			
<ol style="list-style-type: none"> 1. Sintering schedules are provided for the verified ovens listed below using the program slots listed. 2. Verified process parameters include the use of covered speed sintering dishes and sintering granulate (not beads). 3. Sintering dishes must remain covered throughout sintering until cool enough avoid injury to bare hands! 4. Support structures are not required when sintering with Sintering Granulate (not sintering beads). 			
Verified Ovens:	MIHM-VOGT	HT-2/M/Zirkon-120	Program slots 15-20 (Ventilated Cooling Programs)
	MIHM-VOGT	HT-2/M/Zirkon-120	Program slots 15-20 (Ventilated Cooling Programs)
	MIHM-VOGT	HT-SPEED	Program slots 23-24 (Ventilated Cooling Programs)
	MIHM-VOGT	HTS-SPEED	All Program Slots
	ZUBLER	VARIO S400	All Program Slots
	ZUBLER	VARIO S430	All Program Slots
Times and temperatures may differ slightly for other ovens with other media and may require some testing prior to production usage. Contact Zubler USA for more information.			

3:45 Zirconia IFU (Instruction for Use Continued)

Full Arch Program	Important! *Tray must remain covered throughout the sintering process with a speed capable lid or second speed tray. *				
	Stage	Stage Temperatures	Heat/Cool Rate	Hold (Target) Temperature	Holding Time
	S1	Room Temp. to 1000°C	70°C/Min.	1000°C	0
	S2	1000°C to 1530°C	23°C/Min.	1530°C	120
	S3	1530°C to 1000°C	50°C/Min.	1000°C	0
	S4	1000°C to 250°C	30°C/Min.	250°C	0
	S5	250°C to Room Temp.	*Cool covered (with lid or second bowl) until safe to the touch or to room temperature*		

Single Unit Program	*No Cover is necessary for single units *				
	Stage	Stage Temperatures	Heat/Cool Rate	Hold (Target) Temperature	Holding Time
	S1	Room Temp. to 1000°C	99°C/Min.	1000°C	0
	S2	1000°C to 1300°C	50°C/Min.	1300°C	0
	S3	1300°C to 1530°C	30°C/Min.	1530°C	60
	S4	1530°C to 1000°C	99°C/Min.	1000°C	0
	S5	1000°C to Room Temp	*Allow to cool open until safe to the touch or to room temperature* (do not place near cool / moving air or fans)		

Notes	<ul style="list-style-type: none"> Do not apply pressure while adjusting sintered body. Zirconia stability may be improved with heat treatment up to 1000 °C after sintered body trimming. For layering ceramic on 3:45, use a build-up powder for zirconia. Follow manufacturer recommendations. Zubler USA does not recommend zirconia support/stabilizer be designed or milled for use with 3:45 during the sintering process.
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Cautions	<p>A. Users are advised to inform themselves, their staff and those entering their premise of the possible hazards involved with zirconia materials.</p> <p>B. Users are advised to read these instructions and maintain proper, storage, handling, and usage procedures to avoid injury and/or product failure.</p> <p>C. Do not allow contact with children and/or seniors, prior to delivery to the dentist for placement.</p> <p>D. Do not place 3:45 near an infection.</p> <p>E. Avoid the application pressure or impact while handling or during transport.</p> <p>F. For use only by licensed dental professionals, dentists, or specialists.</p> <p>G. It is recommended to follow the suggested firing schedule.</p>
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Storage	<p>A. Avoid high temperature, humidity, and direct sunlight.</p> <p>B. Store at normal room temperature in a cool dry place.</p>
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Transport	<p>A. Transport with cushioning material to buffer all impacts</p> <p>B. Do not drop or throw.</p> <p>C. Avoid the application pressure or impact while handling or during transport.</p>
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Disposal	<p>A. The product is disposable and must not be reused.</p>
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