

3:45 Zirconia IFU (Instruction for Use)

Pre-Shaded Mono Layer Strength 1100Mpa Translucency 48%

ndication

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.

Caution: Prescription required. Federal law restricts sale of this material to dental health professionals.

Device Description

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.

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 patient's tooth color. Various shapes are offered to accommodate various milling machine jigs.

Preparation

- 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 meets all the requirements intended for use.
- 4. Confirm the product meets the prescription requirements.

Instructions for Use

- 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 fracture of the material prior to milling. The shrinkage factor can be found on the disc and/or on the box of the material (**Example: The minimum thickness; before sintering, approx. 0.6mm, after sintering, approx. 0.5mm)**
- 3. Check milling machine burs prior to milling! Then proceed with the milling process.
- 4. After milling, remove the bridge or arch carefully.
- 5. If wet milling or if color liquids are used: Use a drying oven to dry at 250°F for 1 hour, prior to placement in the sintering oven. *If an arch or large structure is wet when placed in the sintering oven it will crack when used with the fast climb rate. *
- 6. 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.

Sintering parameters for approved (verified) ovens

IMPORTANT

Wet milled or colored structures (especially arches) should be dried in an oven at 250°F for 1 hour prior to sintering to avoid cracking with high heat rates. Dry zirconia also decreases oxidation in MoSI2 elements. Sintering schedules are provided for the verified ovens listed below using the program slots listed. Verified process parameters include the use of covered speed sintering dishes and sinter granulate (not beads). Sintering dishes must remain covered throughout sintering until cooled below 100°C. Avoid placing warm sintering bowls on conductive surfaces or near cool or moving air.

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	HT-SPEED	All Program slots	
	ZUBLER	VARIO S400	All Program slots – NOTE*(Door opening temperature max 400°C)	
	ZUBLER	VARIO S430	All Program slots – NOTE*(Door opening temperature max 400°C)	

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.



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m	Important! *Tray must remain covered throughout the sintering process with a speed capable lid or second speed tray							
Full Arch Program–FP3	Stage	8/min	8	min				
ram	S4	70°C/min	1300°C to 300°C	-	*Cool covered (with lid or second bowl) until below			
rog	S3	30°C/min	1530°C to 1300°C	-	100°C or to room temperature*			
h P	S2	23°C/min	750°C to 1530°C	120				
l Arc	S1	70°C/min	Room temp. to 750°C	-				
Ful								
FP1	*You must mill and sinter with support*							
Full Arch Program–FP1	Stage	8/min	8	min				
	S4	7°C/min	1530°C to room temp.	-				
Sh P	S3	7°C/min	1300°C to 1530°C	120				
Full Ard	S2	10°C/min	1000°C to 1300°C	-				
	S1	17°C/min	Room temp. to 1000°C	-				
Single Unit Program	Import	Important! *Tray must remain covered throughout the sintering process with a speed capable lid or second speed tray*						
	Stage	8/min	8	min				
	S5	-	1000°C to room temp.	-	*Allow to cool open until safe to the touch or to			
Jnit	S4	99°C/min	1530°C to 1000°C	-	room temperature*			
le L	S3	30°C/min	1300°C to 1530°C	60				
Singl	S2	50°C/min	1000°C to 1300°C	-				
	S1	99°C/min	Room temp. to 1000°C					
	-	Avoid placing warm sintering bowls on conductive surfaces (like granite, marble, stainless steel) or near cool or moving						
Notes	-	air (fans, air conditioning vents or open windows, etc.) Do not apply pressure while adjusting the sintered body. For						
0	-	layering ceramic on 3:45, use a build0up powder for zirconia. Follow manufacturer recommendations. Zubler USA does not recommend zirconia support/stabilizer be designed or milled for use with 3:45 unless milling FP3, during the						
_		recommended sintering process that includes the use of a sinter granulate.						
	Α.	Users are advis	ed to inform themselves, their s	taff and those	e entering their premises of the possible hazards			
	/	A. Users are advised to inform themselves, their staff, and those entering their premises of the possible hazards involved with zirconia materials.						
တ	B.	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1						
ō		injury and/or product failure.						
Cautio		C. Do not allow contact with children and/or seniors before delivery to the dentist for placement.D. Do not place 3:45 near an infection.						
Ca	E.							
	F.							
	G.	G. It is recommended to follow the suggested firing parameters.						
Storage	A.	A. Avoid high temperature, humidity, and direct sunlight.						
Stora	B.	B. Store at normal room temperature in a cool dry place.						
	Ι Δ	Tronomort	oufficient auchieries to	id impasts				
Transport	A. B.	A. Transport with sufficient cushioning to avoid impacts.						
ans		B. Do not drop or throw.C. Avoid applying pressure or impact while handling or transport.						
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sal	A. The product is disposable and must not be reused.							
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Disposal								