

Controlled Medical Device: Zirconia Blank for Dental Milling and Machining

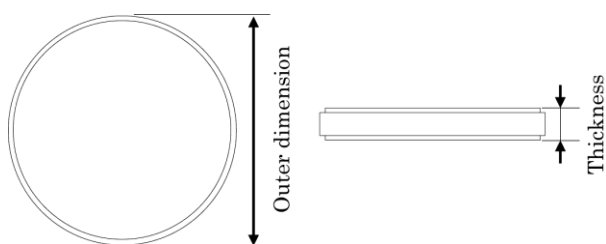
KZR-CAD Zirconia INSTRUCTIONS FOR USE

【Contraindications and Prohibitions】

- Do not use this product outside the scope of recommended indications, effects or potency.
- Do not use this product on patients who have a history of allergy, such as irritation, to this product.
- Do not use this product on patients who exhibit bruxism / dental parafunction.

【Shape, Composition and Principle】

1. Shape



Outer dimension ϕ : 98.5mm

Thickness: 14, 16, 18, 20, 22 and 25 mm

Shades: T, HT, A1, A2, A3, A3.5, SHT, SHT-A1, SHT-A2, SHT-A3, SHT-A3.5

【Constitution】

This product is a ceramic body formed by applying pressure to its main component, Zirconium Oxide, and then sintering it.

C.T.E. 10.9 ± 0.5 (50-500 degrees C) (T, HT, A1, A2, A3, A3.5)

C.T.E. 10.2 ± 0.5 (50-500 degrees C) (SHT, SHT-A1, SHT-A2, SHT-A3, SHT-A3.5)

【Principle】

This product is a Zirconia Disc for producing dental restorations to be sintered after milling with use of computer-aided design and a computer-aided manufacturing unit.

【Intended Use and Effect】

This product is a dental material for milling with use of computer-aided design and a computer-aided manufacturing unit, in order for dental laboratories to produce dental prosthesis made of ceramics.

【Instructions for use】

- (1) In accordance with the instruction manual of the computer-aided design and computer-aided manufacturing unit for dental laboratories (CAD/CAM system), mount a disc and input the setting values.
- (2) Milling process
Follow the instruction manual of the CAD/CAM system to mill.
- (3) Sintering
After milling, place in the furnace and sinter; use the following program as a reference:

<Sintering Program>

	Heat	Heat	Hold	Cool
Temperature (°C)	1,000	1,450	1,450	Cooling in furnace
Time (hour)	2	4.5	2	

- (4) Corrections to Shape
If needed, correct to shape with a diamond bur in accordance with normal practice.
- (5) Build up with porcelain for zirconium oxide in accordance with normal practice.
- (6) Mount it on the restoration point in accordance with normal practice.

【Technical Directions and Points for Attention】

- (1) Only adequately certified personnel should handle this product.
- (2) Do not use this product outside the scope of recommended indications, effects or potency.
- (3) Do not use a CAD/CAM system whose size does not conform to this product.
- (4) Design in accordance with the magnification rate indicated for this product.
- (5) Mill this product with a dry process.
- (6) Remove refuse on the frame thoroughly after milling.
- (7) The sintering temperatures and times given are intended as a general guide.
Furnace conditions differ depending on the type and shape of furnace. Test your electrical furnace before actual use to confirm that the sintering temperature is appropriate.
- (8) When correcting the shape after forming, use diamond bur with careful attention not to cause chipping and cracking by local heating.
- (9) Use porcelain powder for Zirconia.
- (10) When placing dental restoration, conditioning is needed. Also, do not use autoclave, as Zirconia oxide is subject to low-temperature hydrothermal deterioration.
- (11) When placing dental restoration, use appropriate dental cement material.
- (12) Stop using this product immediately if any signs of allergy, such as irritation or rash, appears in patients. If symptoms persist, seek medical attention.
- (13) Do not place this product in an ultraviolet curing unit, etc.

【Precautions】

- (1) Important Basic Cautions
 - ① During sintering, the fracture will be heated; do not touch directly.
 - ② When milling and polishing sintered product, use a dust-removing device and anti-dust mask to avoid inhaling dust.
 - ③ When milling and polishing sintered product, wear safety goggles to protect the eyes.

【Reference Information】

(1) Intended Uses of Each Shade

Shade	Types & classification *	Intended Use
T, HT, A1, A2, A3, A3.5	II 5	veneer, inlay, onlay, coping and crown for single to 14 unit bridge
SHT, SHT-A1, SHT-A2, SHT-A3, SHT-A3.5	II 4	veneer, inlay, onlay, coping and crown for single to 3 unit bridge

*ISO6872: 2015

- (2) When designing frame, use the following guidelines on minimum thickness as a reference:

Shade	Anteriors		Posteriors	
	Body	Incisal, Occlusal	Body	Incisal, Occlusal
T, HT, A1, A2, A3, A3.5	0.5	0.5	0.5	0.5
SHT, SHT-A1, SHT-A2, SHT-A3, SHT-A3.5	0.5	0.7	0.7	1.0

(3) These are guidelines on sintering crowns for single to 8 unit bridges when using our sintering furnace “KZR Sinfer”.

	Heat	Heat	Hold	Cooling
Temperature (°C)	1,000	1,450	1,450	400 (in furnace)
Time (hour)	2	4.5	2	1.5

【Storage and Expiry Date】

[Storage Method]

- Do not subject this product to strong impacts.
- Keep out of reach of personnel other than dental staff.

【Package】

- Disc: x 1



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