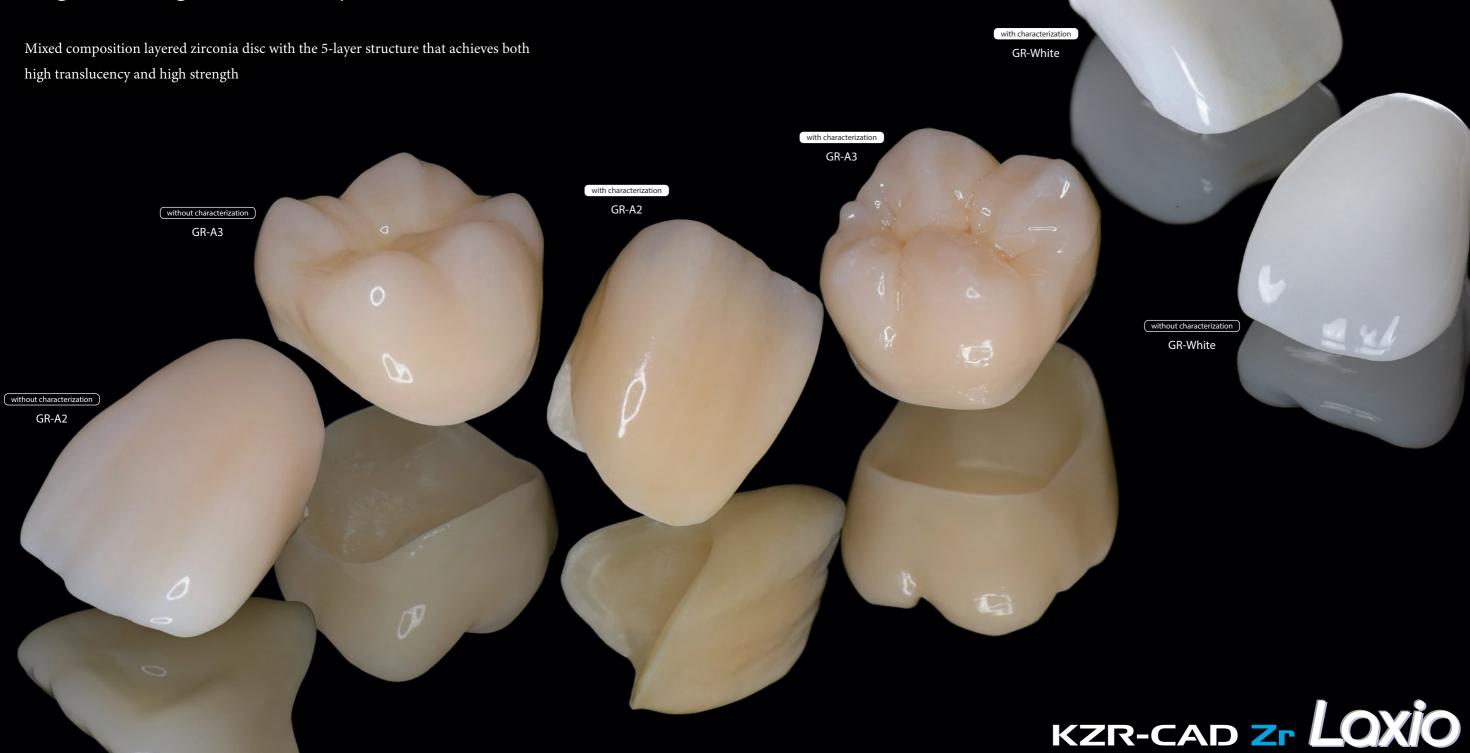


Manufacturer

YAMAKIN CO., LTD. 1090-3 Otani, Kamibun, Kagami-cho, Konan-shi, Kochi, 781-5451 Japan

# Gradation disc that is uniformed high strength in all layers



# Shade Concept with Excellent Aesthetic Properties









### Achieve both high translucency and high strength of the incisal part

By mixing the optimal amount of Tosoh Corporation's new raw material "Zpex Smile.m®", high strength (1,100 MPa) is achieved uniformly in all layers while achieving gradations with excellent aesthetics. High transparency and high strength of the incisal edge are achieved.

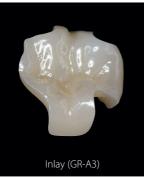
	Three point flexural strength*1	Light transmission*2	
Incisal area		46%	_
Middle area	1100 MPa	44%	
Cervical area		42%	

Measured with GR-White.

Since the strength is same at any position on the disc, dental restorations can be placed according to the translucency required in each case.

A single disc can be used for a wide range of cases; from inlays, onlays, laminate veneers and 14-tooth full bridges which require high strength.





# Transition of translucency from the incisal area to the cervical area

The incisal part is designed to be highly translucent and the cervical part is designed to be low translucency, making it less affected by the color tone of the abutment tooth material or resin cement.



# Low deformation (warpage)

Thanks to optimize the ratio of zirconia powder, molding pressure, and presintering temperature, "warpage" is technically controlled, resulting in a good fit.



## Chipping is less likely to occur

The disc is designed as high strength at all positions within the disc, and is easy to proceed with the milling process. It can be used safely in thin areas that are prone to chipping, such as at the incisal part, or in inlay cases where there is a margin around the entire circumference.

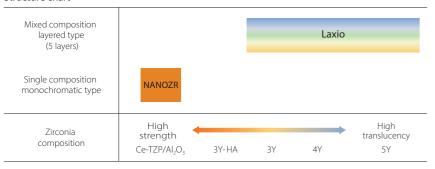


<sup>\*1</sup> According to ISO 6872: 2024 (typical value)

<sup>\*2</sup> In-house test: specimen thickness 1mm (typical value)

#### YAMAKIN's zirconia lineup

#### Structure chart



#### Physical properties and main applications

		NANOZR	Laxio		
	Incisal area		46		
Light transmission (%)*1	Middle area	0	44		
	Cervical area		42		
Three point	Incisal area		1,100		
flexural strength	Middle area	1,110			
(MPa) *2	Cervical area				
Fracture toughness (MPa	m <sup>1/2</sup> )*3	12.1	-		
Intended use		Crown to 14-teeth bridge frame (suitable for implant cases*4)	Inlays, onlays, laminate veneers, anatomical crowns for anterior/posterior and 14-teeth bridges (suitable for implant cases**)		

Light transmission and flexural strength are representative values measured for colorless zirconia.

#### KZR-CAD Zr Laxio Sintering Program

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

<sup>\*</sup>In the case of crown and bridge (up to 14 units)

<Mixed composition layered type  $\cdot$  5 layers>



Controlled Medical Device - Zirconia Blank for Dental Milling and Machining



Shade		Diameter 1 (Φ) 98.5 mm / Diameter 2 (Φ) 93.5 mm				
		Thickness 1 (t)				
	White					
GR	A1	14 mm	18 mm	22 mm		
	A2			22 111111		
	A3					

	GR-White	GR-A1	GR-A2	GR-A3
Translucency of 0.5 mm thick pellets				

#### **KZR-CAD NANOZR**

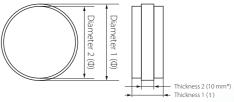
Controlled Medical Device - Zirconia Blank for Dental Milling and Machining



			Diame	eter 1(Φ)9	8.3 mm /	Diamete	r 2 (Ф) 94	.0 mm		
NANIOZD	Thickness 1 (t)									
NANOZR 10 mm 12 mm 14 mm 16 mm 181	18 mm	20 mm	22 mm	25 mm	30 mm*	35 mm*				

\*Thickness 2 of 30 mm and 35 mm is 20 mm.

	NANOZR
Translucency of 0.5 mm thick pellets	



\*Thickness 2 of 30 mm and 35 mm is 20 mm.

Web site For more information, scan here ▶



<sup>\*1</sup> In-house test (specimen thickness 1 mm)

<sup>\*2</sup> According to three point flexure test ISO 6872: 2024

<sup>\*3</sup> According to SEPB method ISO 15732:2003 \*4 Less susceptible to the color tone of metal abutments