Aidite®

Born for veneer

■ Make People Healthier and More Beautiful

Aidite product development consultant Chien-Ming Kang

EZneer series zirconia

Specially developed for zirconia veneers, EZneer has broken the previous translucency limit of zirconia and brought the zirconia material to a new level in terms of translucency. While ensuring ultra-high translucency, the strength of the material is also much higher than the traditional veneer material glass ceramic. When making veneer restorations, believe that EZneer will bring you a new material experience.

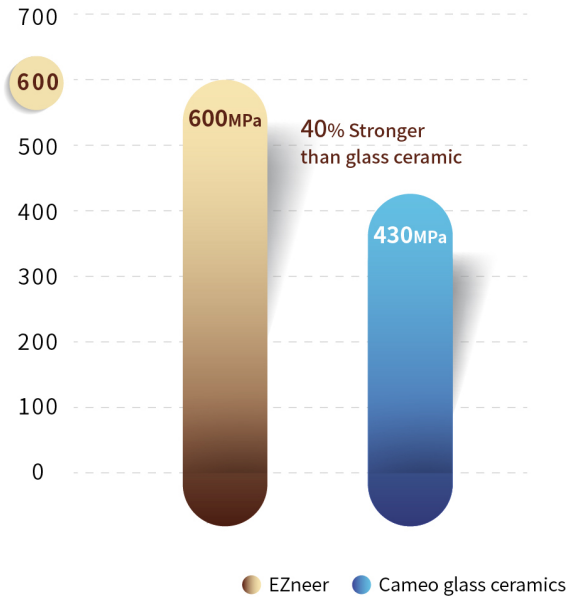
EZneer

Strength and Translucency

Strength
⩾600MPa

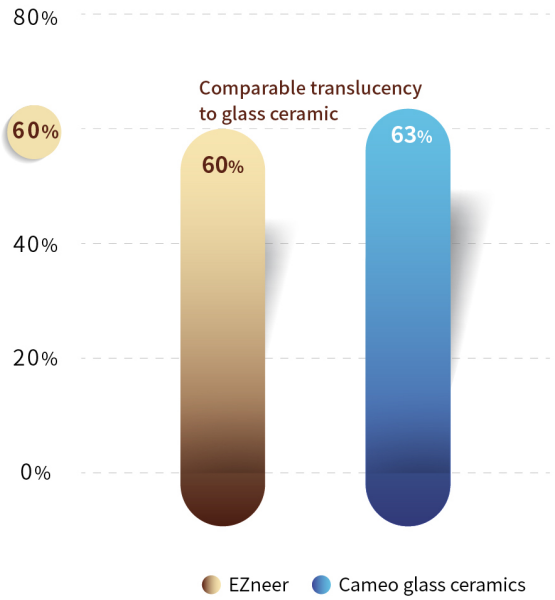
Translucency
60%

Strength comparison



Measurement Condition:
Evaluated by HV color block according to GB30367-2013.

Translucency comparison



Measurement Condition:
Evaluated by HV color block according to ISO13468-2:2006

Product parameters

Physical parameters

Sintered density	Coefficient of thermal expansion K-1 (25~500°C)	Surface monoclinic phase content after accelerated aging	Chemical solubility	Radioactivity
⩾6.0g/cm^3	(10.5±1.0) x10^{-6}	＜5%	＜100μg/cm^2	＜0.05Bq/g

Chemical parameters

ZrO_2	Y_2O_3	Al_2O_3	Other oxides
90%~95%	4%~10%	⩽0.5%	＜0.5%

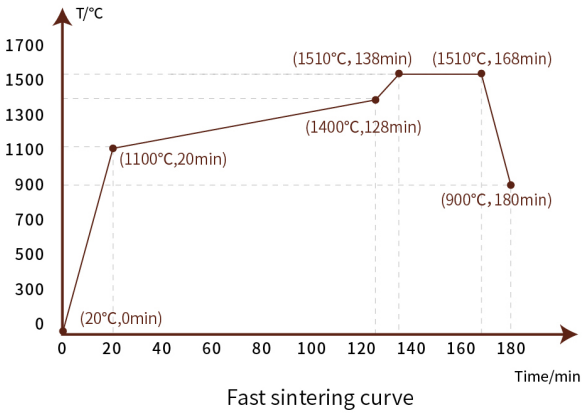
Sintering curve

Fast sintering curve

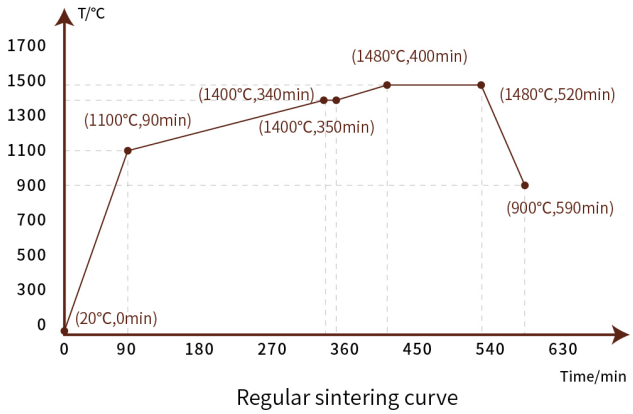
Temp at start (°C)	Heating time (min)	First stage temp (°C)	Heating time (min)	Second stage temp (°C)	Heating time (min)	Third stage temp (°C)	Holding time (min)	Cooling time (min)	End temp(°C)
20	20	1100	108	1400	10	1510	30	12	900

Regular sintering curve

Temp at start (°C)	Heating time (min)	First stage temp (°C)	Heating time (min)	Second stage temp (°C)	Holding time (min)	Heating time (min)	Third stage temp (°C)	Holding time (min)	Cooling time (min)	End temp(°C)
20	90	1100	250	1400	10	50	1480	120	70	900



Fast sintering curve



Regular sintering curve

Tip: When using the above sintering curve, because the sintering performance of different brands of sintering furnaces are different, it may affect the final effect of the restoration after sintering. It is recommended that after the first sintering, the maximum sintering temperature can be adjusted appropriately according to the actual situation to obtain the best sintering effect.

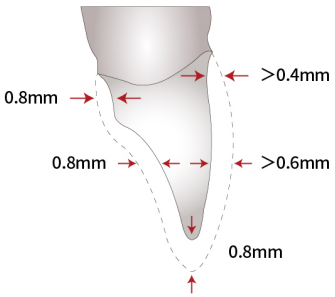
Indication

	Veneer	Anterior crown	Inlay/Onlay
Preshade EW/BW/HV/LV	★	★	●
Multi-layer BWM/HVM/LVM	★	★	○

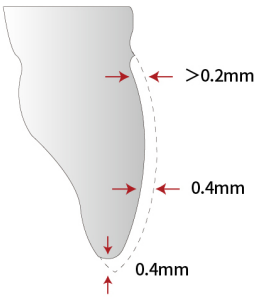
★ Suggest ● Available ○ Not suggested

Design and preparation guidance

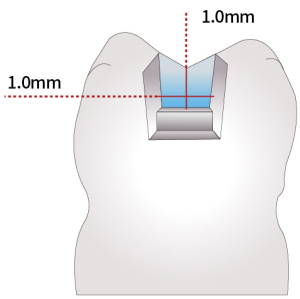
Anterior crown



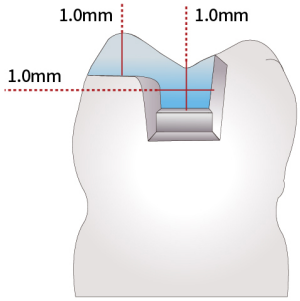
Veneer



Inlay



Onlay



Color

Preshade color: **EW / BW / HV / LV**

As preshade ultra-high translucency zirconia material, suitable for making 0.3-0.5mm ultra-thin aesthetic veneer restorations. Under the indication of natural abutment base color, can easily achieve the ultimate aesthetic restoration effect of the anterior teeth.

EW (Extra White)

Extremely white color, in addition to having the characteristics of high translucency, but also retaining the extremely flawless bright white.

BW(Bleach White)

A natural and highly transparent bleaching white color, developed for patients who require both natural and bleaching.

HV(High Value)

High-brightness color, can be easily combined with the natural abutment base color to make aesthetic veneers, which is suitable for clinical cases where the natural adjacent teeth are high-brightness.

LV(Low Value)

Low-brightness color, can be easily combined with the natural abutment base color to make aesthetic veneers, which is suitable for clinical cases where the natural adjacent teeth are low-brightness.

Mulit-layer color: **BWM / HVM / LVM**

As multi-layer ultra-high translucency multilayered zirconia material, suitable for making 0.5-0.8mm aesthetic veneer and anterior restorations. Can reduce the effect of the dullness of the abutment and show a natural gradient effect, achieving the ultimate aesthetic restoration effect of the anterior teeth.

BWM(Bleach White Multilayer)

Natural and high-transparent multilayered bleaching color, when making bleaching aesthetic veneers, no need to dye or use porcelain to get a natural gradation effect.

HVM(High Value Multilayer)

High-brightness multilayered bleaching color, when making bleaching aesthetic veneers, no need to dye or use porcelain to get a natural gradation effect. Suitable for clinical cases where the natural adjacent teeth are high-brightness.

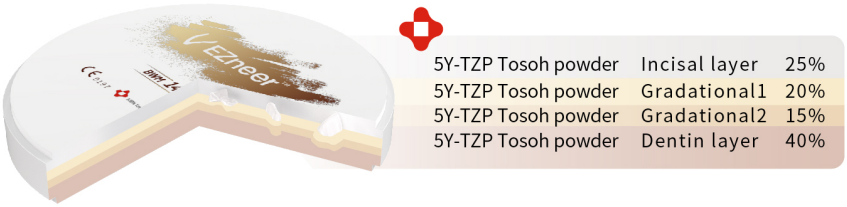
LVM(Low Value Multilayer)

Low-brightness multilayered bleaching color, when making bleaching aesthetic veneers, no need to dye or use porcelain to get a natural gradation effect. Suitable for clinical cases where the natural adjacent teeth are low-brightness.

Dimensions

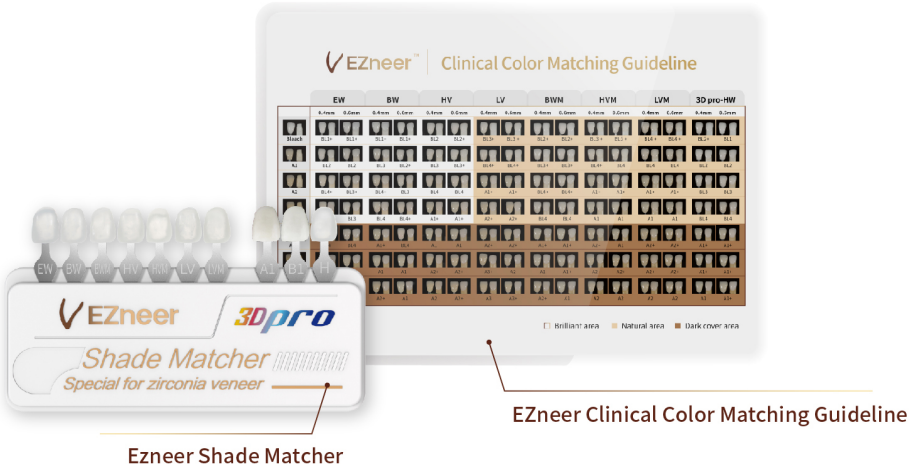
Open system	Girrbach system	Zirkonzahn system
D98*10 (H)	AG71*10 (H)	D95*10 (H)
D98*12 (H)	AG71*12 (H)	D95*12 (H)
D98*14 (H)	AG71*14 (H)	D95*14 (H)
D98*16 (H)	AG71*16 (H)	D95*16 (H)
D98*18 (H)	AG71*18 (H)	D95*18 (H)
D98*20 (H)	AG71*20 (H)	D95*20 (H)

More information about multi-layer ones is as follows



Color matching system

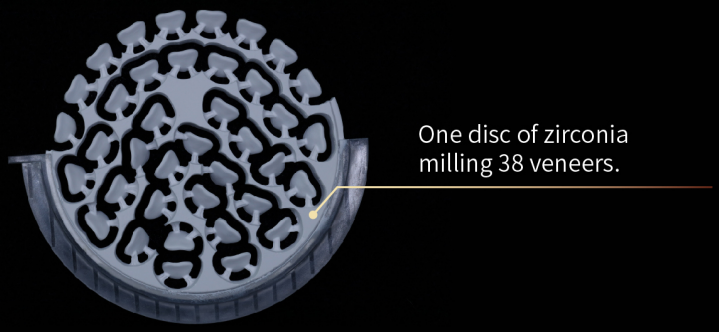
The EZneer is equipped with a specified shade matcher and clinical color matching guideline, which aims to allow doctors and technicians to make a better use of the EZneer, and ultimately bring beautiful smiles to patients.



Advantages of zirconia as a veneer
(compared to glass ceramic)

Low material cost

Because of the material utilization rate and material price, the material cost of a single zirconia veneer is lower than glass ceramics.



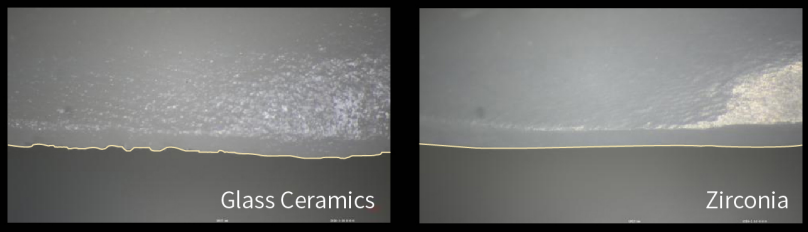
The three-point bending strength is 40% higher than glass ceramics.

Higher material strength makes zirconia more flexible and excellent in clinical performance.

Better biocompatibility

Easy to process

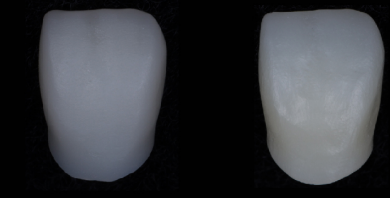
Zirconia before final sintering is a soft material, and is processed in an enlarged scale, which is not easy to collapse during milling.



*Restoration observed under a 4.5x microscope.

Color gradient, restore natural teeth.

Zirconia can provide gradient colors, and the color effect is more realistic and natural than glass ceramics.



Glass Ceramics LVM

Zirconia bonding

1. Use 50 um/3 bar sandblasting on the inner adhesive surface of EZneer.

2. Use an air gun and water to clean and blow dry (avoid using any phosphoric acid/hydrofluoric acid to clean and etch the surface).

3. Use a ceramic primer containing MDP (Methacryloxydecyl Dihydrogen Phosphate) to be evenly coated on the bonding surface.

4. Use resin-based adhesive to complete the bonding of the restoration (using pure light cure resin-based adhesive can prevent the restoration from darkening)

Note：If the restoration after sandblasting has been tried on in the mouth or washed with phosphoric acid, the bonding surface is contaminated. It is recommended to re-blast and clean before bonding. Or you can use a protein-removing cleaning liquid (such as Ivoclean, which can effectively clean the bonding surface after a try-on in the mouth) to clean the contaminated bonding surface before bonding again.

EZneer™

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BW(Bleach White)

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