Perfit

Perfect Aesthetic Zirconia Solution

#Since2000 #PioneerofZirconium #WalkintoVatech #ft.Brandnew #Perfectfitprosthetics #Likenoother #Don'smissit







Perfit

Material & Clinic Integrated Solutions

Vatech MCIS, a subsidiary of Vatech Networks, has been always dominating a Korean market in the field of dental X-ray for about 20 years. More than 11,000 dental clinics in Korea use our imaging device. Vatech MCIS is now expanding its business scope to concentrate on total CAD/CAM system especially on zirconia materials. Based on our accumulated R&D experiences, we will continue to develop as a professional zirconia manufacturing enterprise.

Corporate Identity



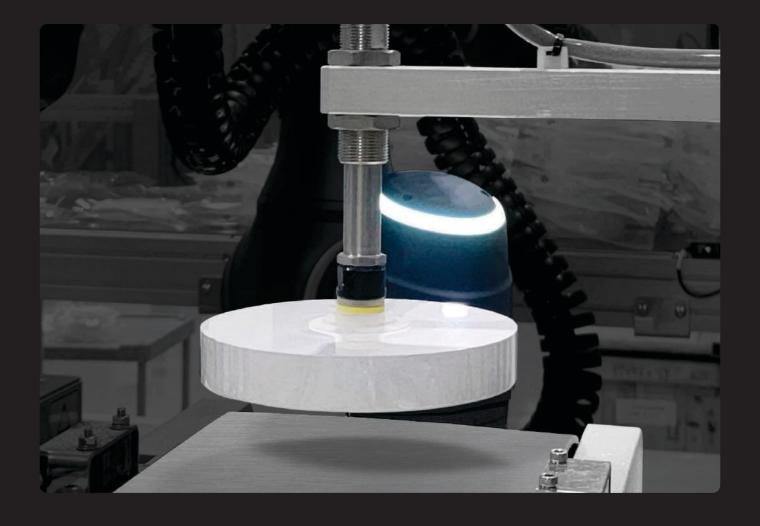
CLINIC SOLUTIONS PROVIDER

Providing essential solutions necessary for clinics, patients, doctors and staff to widen your digital dentistry



BIO-MATERIAL MANUFACTURER

Our continuous efforts in research and development of bio materials as a korea's first dental zirconia developer ensures outstanding product quality.



1. DECADES OF R&D

The first Korean manufacturer of zirconia in dental use with more than 20 years of manufacturing history.

2. STABLE POWDER QUALITY CONTROL

Perfit is born through strict quality control system. It leads less crack and chipping during mill-process.

3. ABUNDANT RESEARCH EXPERIENCES

84 publications listed in SCI , 9 international patents, Certificated by CE, ISO 9001, ISO 13485, FDA

4. STABLE POWDER QUALITY CONTROL

Optimize workflow and enhance the accuracy through the introduction of the automated pressing system





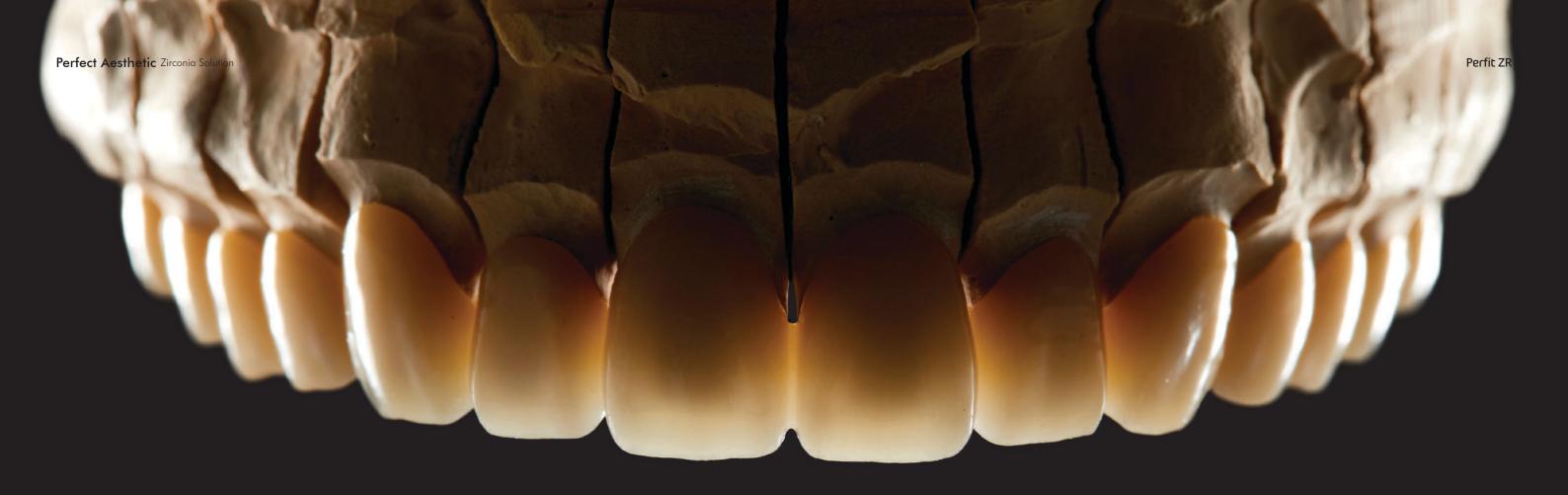








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Perfit ZR

Perfit ZR UT

Perfit ZR ST

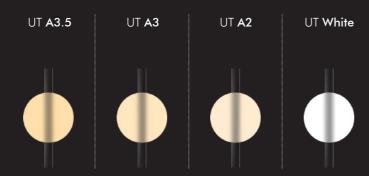
Perfit ZR HT

Perfit ZR TSML

Perfit ZR STML

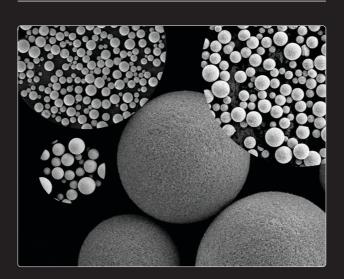
1. Excellent translucency

50% Perfit ZR UT (1 mm thickness)



Perfit ZR shows excellent translucency and high quality chroma development by analyzing the spectrum of transmitted light, considering how much light as transmitted, when the restoration is mounted inside of the mouth compared to when it is outside of the mouth.

2. Top quality zirconia disc



- 1 By controlling pore generation inside and homogenization of particle distribution, Surface stability is high.
- 2 Thanks to surface stability, there is no nano crack or chiping

3. Perfect Color Reproduction

Simple Process

Perfet color that fits to VITA shade guide makes simple Coloring



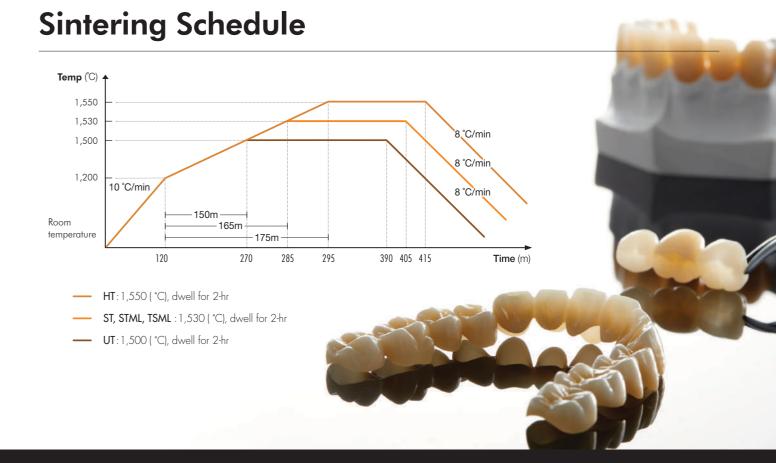
Perfit ZR reproduces the color closest to the VITA Shade. Therefore, no complicated coloring is required after processing, and an enamel-like shade can be sufficiently expressed with less coloring work. This makes it easy and quick to work even for beginners who lack of coloring techniques or experience.

Perfect Aesthetic Zirconia Solution

Product line up

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Category	Multilayer	
	Perfit ZR TS-ML	Perfit ZR ST-ML
Products	Translucency Strength Aesthetic	Translucency Strength Aesthetic
Image	Perfit ZR	Perfit ZR
Materials	5Y-TZP / 4Y-TZP	4Y-TZP
Translucency	46 - 50%	46%
Strength	800-1,100 MPa	1,100 MPa
Shade	A1, A2, A3, A3.5	A1, A2, A3, A3.5
Indication		
Key Features	Excellent translucency on incisal, High Strength on cervical. (used 2 different materials)	5+4 Seamless multilayer with natural gradation color.
Sizes(mm)	12, 14, 16, 18, 22	12, 14, 16, 18, 22

White / Preshade				
Perfit ZR UT	Perfit ZR ST	Perfit ZR HT		
Translucency Strength Aesthetic	Translucency Strength Aesthetic	Translucency Strength Aesthetic		
Perfit ZR	Perfit ZR	Perfit ZR		
5Y-TZP	4Y-TZP	3Y-TZP		
50%	46%	42%		
800 MPa	1,100 MPa	1,300 MPa		
In VITA 16 Classical Guide	In VITA 16 Classical Guide	In VITA 16 Classical Guide		
0 000 &	a @ 661 @p	0 00 P		
High Translucency applicable to Anterior, Inlay/Onlay and Veneer.	Excellent Translucency and high Strength applicable both Posterior and Anterior.	Suitable for minimally prepared case		
10, 12, 14, 16,18, 20, 22, 25	10, 12, 14, 16, 18, 20, 22, 25	10, 12, 14, 16, 18, 20, 22, 25		



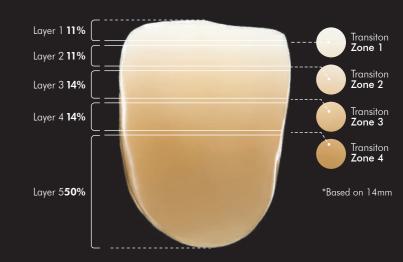
Multilayer ZR

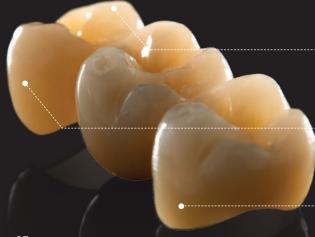
The last solution "Perfit ZR TS-ML"

Perfit ZR TSML is made out of "4Y-TZP" and "5Y-TZP". This structure Creates natural teeth with high translucency on the incisal and strength on the cervical. Vatech mcis is leading its trendy zirconia and it will be a good choice of no regret.

"9 Layered structures" creates ultimate naturalness

Perfit ZR' is 5+4 seamless multilayer with natural gradation color. There are 5 main layers on the surface and 4 transition zones connects between the main layers smoothly.



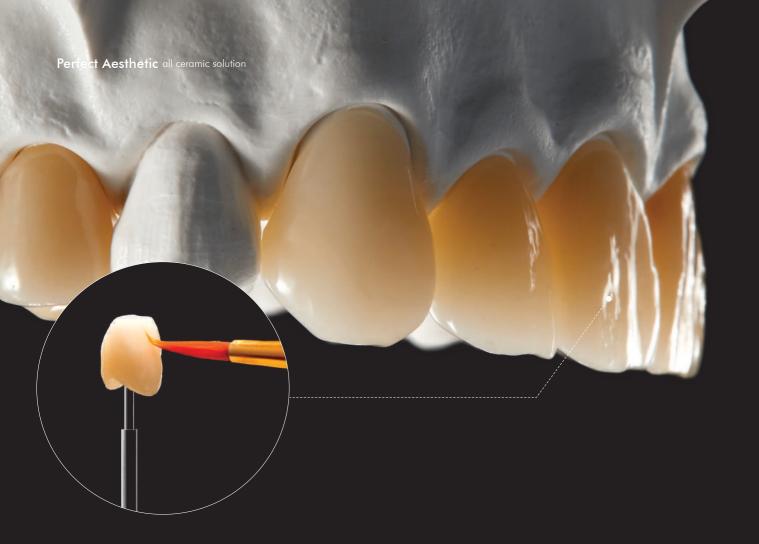


800 MPa 11% incisal zone 5Y - TZP

39% transition zone (3 - layer)
4Y & 5Y - TZP

1,100 MPa 50% dentin zone 4Y - TZP





Clinical Case



"When I compare to other manufacturers, others are little bit opaque color. However, Perfit ZR TSML's transition zone is excellent as its' 9 layered structures so it able to create amazing natural teeth color."

"There is no layer line with nice gradation shade in Perfit ZR TSML and Translucency on the incisal is amazing! I tried using c-clamp and a disc didn't have any crack!"

Voice of Customer

"Applied body liquid once and grey liquid on the incisal to express from A2 to A3.5 than I customized crack of old teeth with stain. Perfit ZR's translucency and Chroma are excellent on the incisal and the cervical. Also, the time is very important in the lab and Perfit ZR is able to save time for coloring."

"Coloring was done according to vatech mcis's coloring guide. The result was good, and a patient was satisfied. I have plan to open a Dental Lab soon, so I want to do business with vatech mcis once opened."

"I created anterior bridges in an orthodontic case. A Patient required smaller crowns than her previous natural teeth. Although the room was not enough, Perfit ZR's strength is good and shade was excellent."

"Considering the posterior and opposing teeth, natural anterior is created. Perfit ZR is not required build up as excellent translucency and shade."



Key Feature

- · No acid in the liquid, therefore it is less pollution inside of sintering furnace.
- · If mixed two liquid, make an intermediate colors
- · To adjust the less chroma, add water.
- · Liquids absorb well on the surface of zirconia.
- · Excellent compatibility with different types of zirconia.

Body Liquid

Coloring liquids that express dentin on body **Product Line-up** - 16ea, 50ml / bottle

(A class - 5ea / B class - 4ea / C class - 4ea / D class - 3ea)

Effect Liquid

Brown (BR)	Apply to occlusal, Molar-cusp, incisor, cervical root	
White (WH)	Apply it for transparent enamel	
Blue (BL)	Apply it for transparent enamel(opal)	
Grey (GR)	Apply it to enamel parts for lower brightness	
Dark Grey (DG)	Same as above but, higher concentration	
Orange (OR)	Apply it to the fossa	



Pink (PI)	Apply it for gingival parts	
Pink+ (PI+)	Same as above but, higher concentration	
Violet (VI)	Apply it to marginal ridge and light white line for higher brightness	
Snow Light (SL)	Apply it to inside slightly for block out metal shade. (If applied too much, the inside of crowns can be distorted)	

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Perfect Aesthetic Zirconia Solution Perfit FS

PERFIT FS

White / Shade Blocks

WORLD'S FIRST MACHINABLE FULLY SINTERED ZIRCONIA BLOCK

Flexural Strength	>500MPa (3-point bending test)	
Translucency	>44% (1.0 mm thickness, by Spectrophotometer)	
line IIn	112 / C14 / C14 / R32	





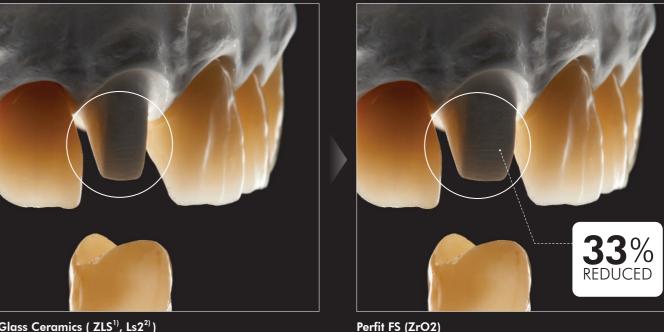


White / Shade Blocks



Perfit FS can be thinner than other materials

High strength enables 33% reduced tooth preparation compared to Other glass ceramics



Wide Indication and Cost Effective

Glass Ceramics (ZLS¹⁾, Ls2²⁾)

- 1) Zirconia reinforced lithium disilicate
- 2) Lithium disilicate

No Oven Needed

Save the chair time and focus more on your patients.

In general, after the Lithium disilicate types are milled, firing process must be required in the Porcelain furnace for approximately 20 to 30 minutes.

It is called as Crystallization process However. Perfit FS, a fully sintered zirconia block, needs no additional firing process after milling.



- other glass ceramics, so it needs 33% less tooth preparation having wide indications.
- · Experience the cost effective and long lasting solution. Perfit FS's reliable strength provides less risk of fracture during fabrication or use.
- · We ensure both customer's and clinic's satisfaction by providing the best products, while constantly challenging ourselves through continuous innovation.

