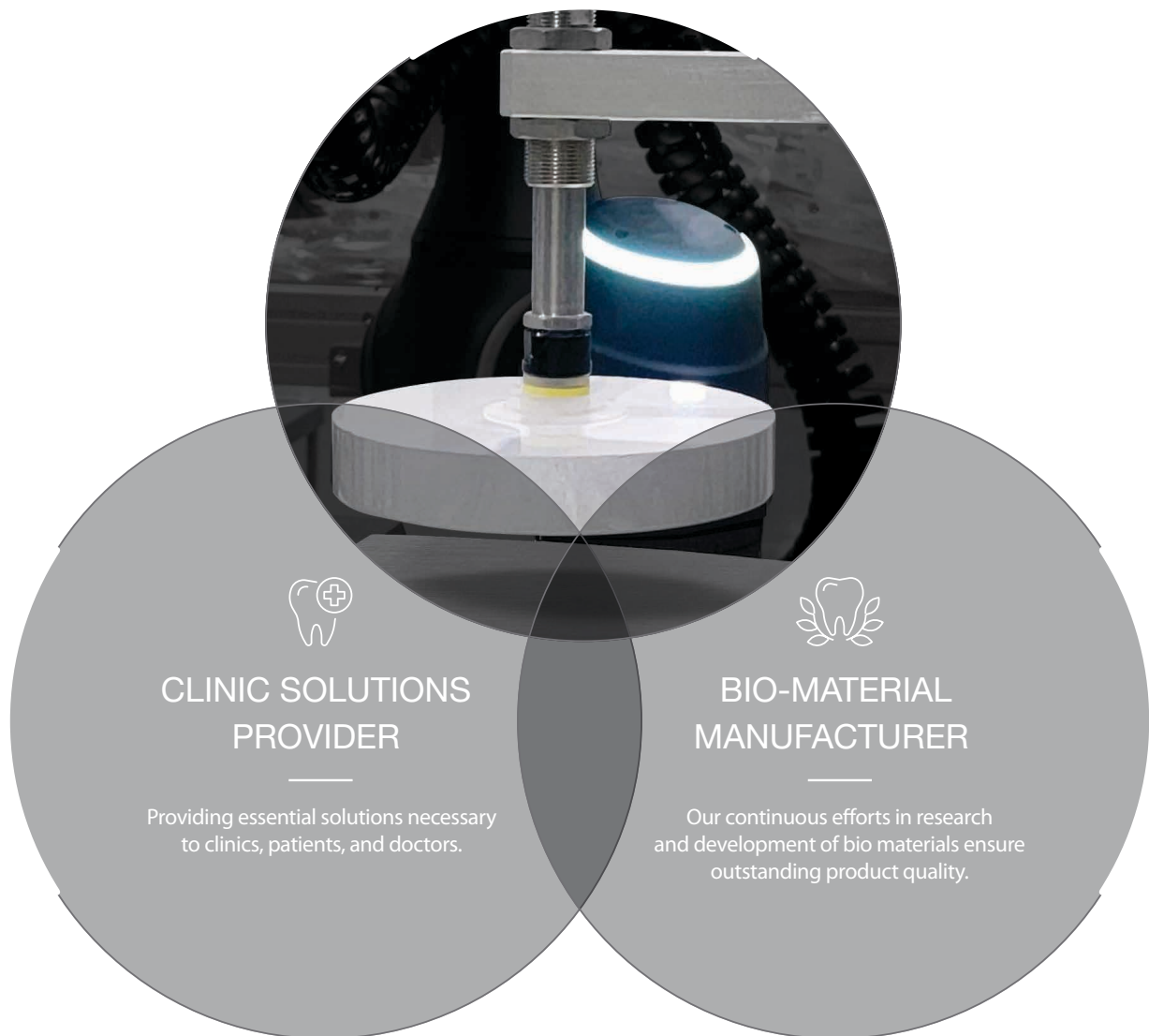


Perfit™

Perfect Aesthetic Zirconia Solution



vatech



DECADES OF R&D

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

STABLE POWDER QUALITY CONTROL

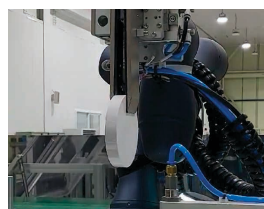
Perfit is born through strict quality control system. It leads to less crack and chipping during milling process.

ABUNDANT RESEARCH EXPERIENCES

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

STABLE POWDER QUALITY CONTROL

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



Perfit ZR™

Perfit ZR UT

Perfit ZR ST

Perfit ZR HT

Perfit ZR TSML

Perfit ZR STML

Excellent translucency

50% Perfit ZR UT (1 mm thickness)

UT A3.5



UT A3



UT A2

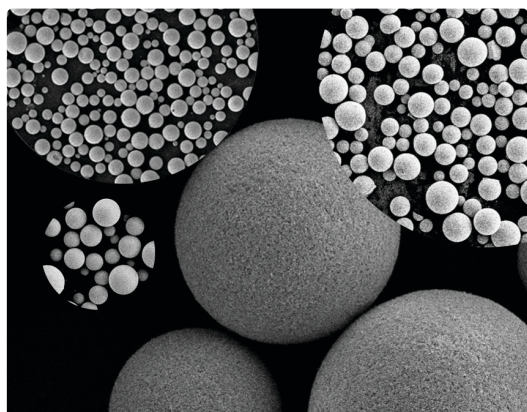


UT White



Perfit ZR shows excellent translucency and high quality chroma as our development team analyzed spectrum of transmitted light when the restoration is inside and outside of the mouth.

Top quality zirconia disc



- By controlling pore generation and homogenization of particle distribution, great surface stability is exhibited.
- Thanks to surface stability, there is no nano crack or chipping

Perfect Color Reproduction

Simple Process

Perfect color that matches with 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.

Product line up

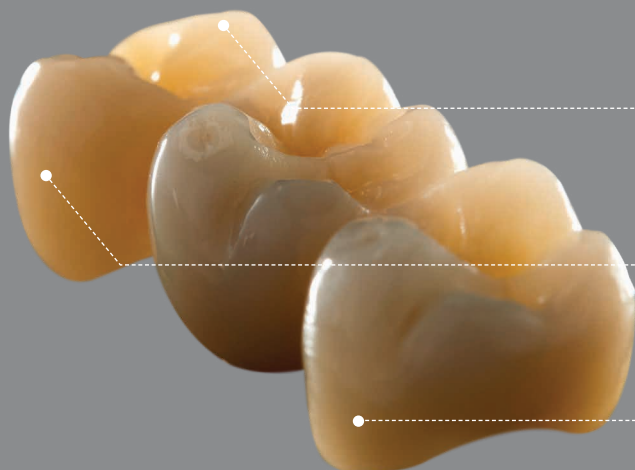
Category	Multilayer	
	Perfit ZR TS-ML	Perfit ZR ST-ML
Products	Translucency ●●●●● Strength ●●●●○ Aesthetic ●●●●●	Translucency ●●●●○ Strength ●●●●● Aesthetic ●●●●●
Image		
Materials	5Y-TZP / 4Y-TZP	4Y-TZP
Translucency	46 - 50%	46%
Strength	800-1,100 MPa	1,100 MPa
Shade	In VITA 16 Classical Guide	In VITA 16 Classical Guide
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, 20, 22, 25	12, 14, 16, 18, 20, 22, 25

White / Preshade		
Perfit ZR UT	Perfit ZR ST	Perfit ZR HT
Translucency ●●●●● Strength ●●●●○ Aesthetic ●●●●●	Translucency ●●●●○ Strength ●●●●○ Aesthetic ●●●●○	Translucency ●●●●○ Strength ●●●●● Aesthetic ●●●●●
		
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
		
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”, which creates natural teeth with high translucency on the incisal and strength on the cervical.



800 MPa

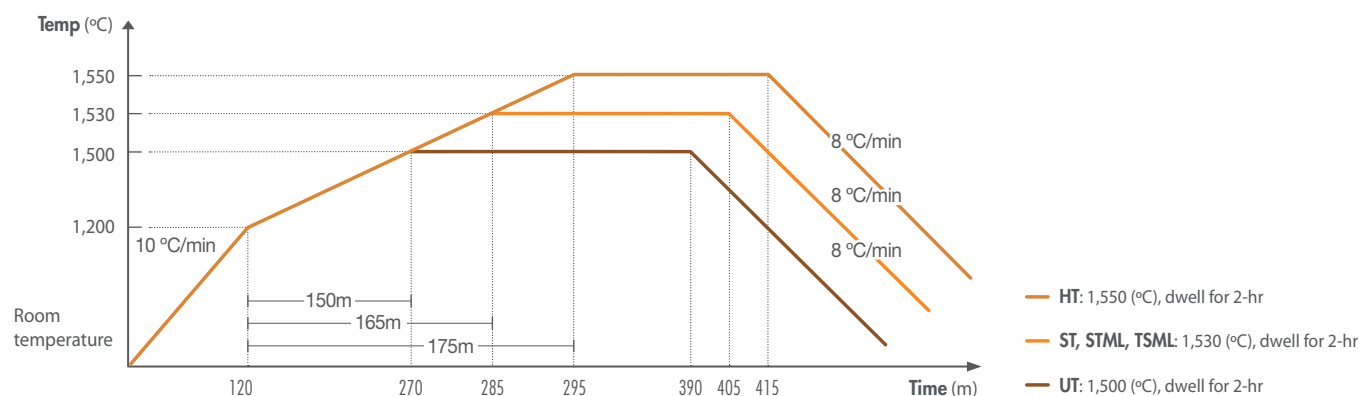
11% incisal zone
5Y - TZP

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

1,100 MPa

50% dentin zone
4Y - TZP

Sintering Schedule



Clinical Case

1.



Before



After

2.



Before



After

"9 Layered structures" creates ultimate naturalness

Perfit ZR' has 5+4 seamless multilayers with natural gradation colors. There are 5 main layers on the surface and 4 transition zones "that smoothly connects the main layers"



Perfit FS™

WORLD'S FIRST MACHINABLE FULLY
SINTERED ZIRCONIA BLOCK

Flexural Strength	>500MPa (3-point bending test)
Translucency	>44% (1.0 mm thickness, by Spectrophotometer)



White / Shade Blocks

Shade	In VITA 16 Classical Guide
Size	II0 / II2 / CI4 / CI6 / B32

Multilayered Blocks

Shade	In VITA 16 Classical Guide
Size	II2 / CI4 / CI6 / B32

No Oven Needed

Save the chair time and focus more on
your patients.

In general, a crystallization process is required after the lithium disilicate types are milled by firing in the porcelain furnace for approximately 20 to 30 minutes.

Perfit FS, however, **is a fully sintered zirconia block that does not require further firing after milling.**



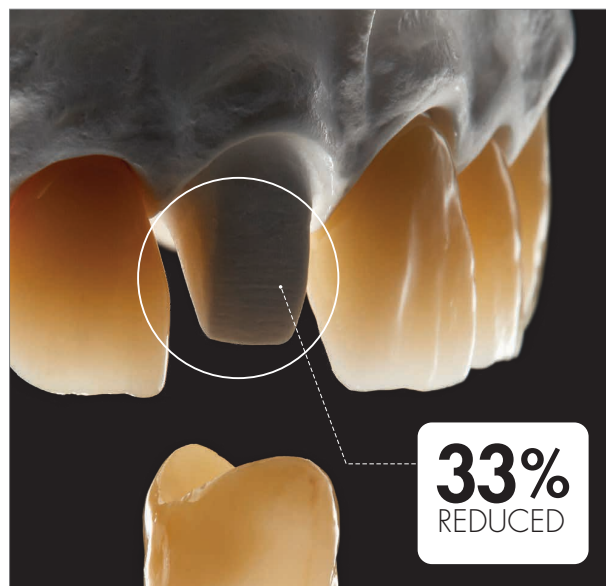
Perfit FS can be thinner than other materials

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



Glass Ceramics (ZLS¹⁾, Ls2²⁾)

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



Perfit FS (ZrO2)

Wide Indication and Cost Effective

- Perfit FS can be milled thinner than other glass ceramics, so it needs 33% less tooth preparation resulting in wide indications.
- Experience the cost effective and long lasting solution. Perfit FS's reliable strength provides less risk of fracture during fabrication or use.
- To ensure both customer and clinic satisfaction, we constantly challenge ourselves through continuous innovation.



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