

DENTALMAX

CAD/CAM PRODUCT

ABOUT US

QUALITY FIRST! Korea's best dental zirconia manufacturer

DENTALMAX was founded in 2009, aiming to create trustful and satisfying products for all.

And as a result of our efforts, we launched our CAD/CAM zirconia brand "LUXEN" in 2013, becoming the most trustworthy dental zirconia manufacturer in Korea.

With our knowledge and experiences, we could successfully expand our business globally, recognized for its excellent and innovative qualities.

We promise to continue to develop and improve to be the advanced leader of dental market.

IDENTITY

- ① Strict quality control of raw materials and products
- ② Systemized quality control based on ISO 13485

- ① Highly competitive products and technologies from extensive testing and research
- ② Constant training of experts to continually develop and acquire new skills
- ③ Collaboration with research institutions for research and development

- ① Develop customer based products
- ② Respond promptly to customer's feedback
- ③ Seek for mutual improvement and innovation between customer and company

DMD Academy

- ① Provide numerous training and education for the correct use of products
- ② Offer various training curriculums based on clinical cases

Quality Control

R & D

Respect

Education

CERTIFICATE

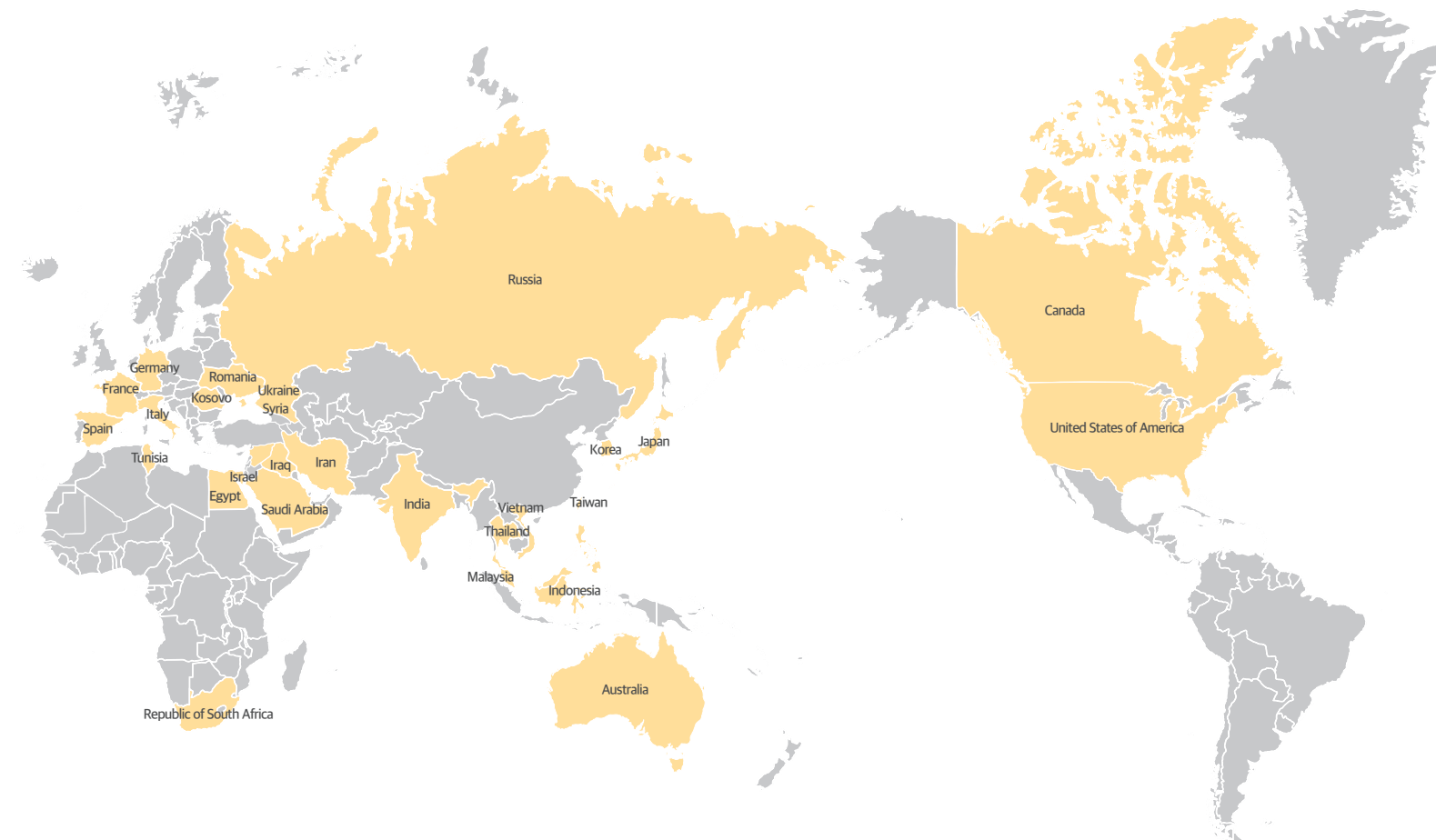
KOREA	KGMP
EUROPE	CE
USA	FDA
JAPAN	MHLW
TAIWAN	TFDA
UKRAINE	UA.TR. 126
RUSSIA	RZN
ETC	CFS

PATENT

PRODUCTION METHOD OF ZIRCONIA CERAMICS IN THE TEETH COLOR (10-0876059)

MANUFACTURING METHOD OF ZIRCONIA MULTI-LAYERED BLOCK FOR ARTIFICIAL TEETH (10-1655996)

GLOBAL PARTNERS



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 - Ⓐ 1200+600 MULTI (WHITE)
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 - Ⓐ 600/800 SMILE
 - Ⓑ 1100 ENAMEL
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 - Ⓐ 600/800 SMILE
 - Ⓑ 1100 ENAMEL
 - Ⓒ 1200 ZR







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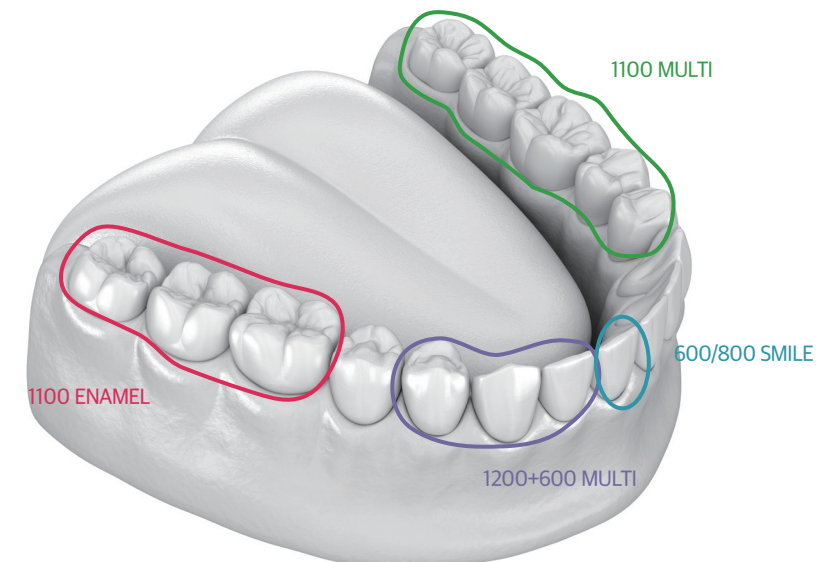
- 19 **LUXEN EDUCATION**

SUMMARY

1. Products

PRODUCT	MULTI LAYER			PRESHADE / WHITE						
	1200+600 MULTI		1100 MULTI	600/800 SMILE		1100 ENAMEL		1200 ZR		
	WHITE	SHADE		PRESHADE	WHITE	PRESHADE	WHITE	PRESHADE	WHITE	
IMAGE										
STRENGTH	Incisal 700(±50)MPa Cervical 1100(±100)MPa	Incisal 700(±50)MPa Cervical 1100(±100)MPa	Incisal 1100(±100)MPa Cervical 1100(±100)MPa	800 (±50) MPa	600 (±50) MPa	1100(±100)MPa		1200(±200)MPa		
TRANSLUCENCY	45~49%	42~49%	42~45%	48%	49%	44%	45%	40%	41%	

2. Indication



MULTI LAYER BLOCK

1200 + 600 MULTI (WHITE)

- Express natural shades using dipping
- Create esthetic prosthesis using high transparency of incisal
- Express 16 shades using 1 block
- Reduce excess inventory
- Reduce block replacing time before milling



Dt. Hyun Soo Park
Full zirconia of 21
using 1200+600 MHT



Translucency

Strength

Esthetics

Size

Disk Type (Φ = 95 / 98 / 100)
12mm
14mm
16mm
18mm
20mm
22mm
25mm

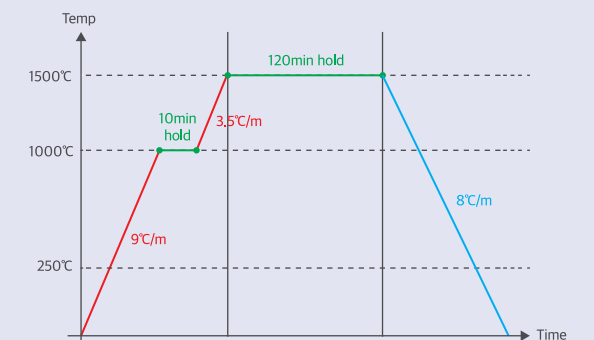
White

	Shade coverage
Light	OM1, OM2, OM3 (bleaching) A1 B1
Medium	A1, A2, A3 B1, B2, B3 C1, C2, C3 D2, D3
Dark	A3, A3.5, A4 B3, B4 C3, C4 D3, D4

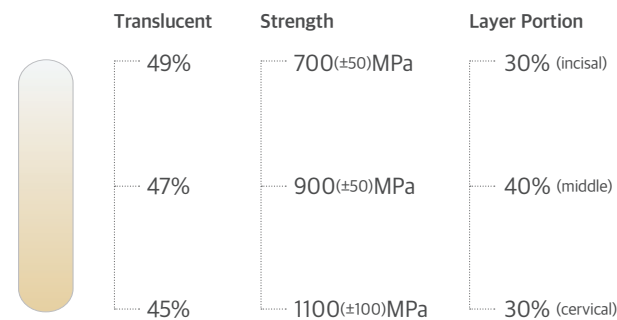
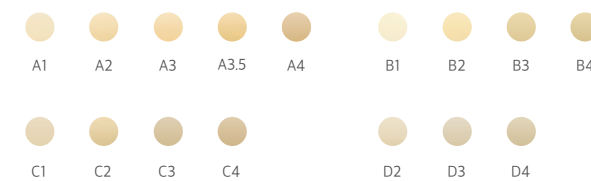
Indication



Sintering Schedule



Dipping liquid



1. Dip a zirconia crown into dedicated LUXEN Dipping Liquid for 10 seconds. (Remove remaining on the crown to prevent liquid contamination.)



2-1. Wash the dipped crown with distilled water.
2-2. Remove the water with clean tissue or air gun.

TIP> For better results, use special liquids to express custom shades after drying liquid.



3. Dry the crown at 200°C for 15 minutes. (It is recommended to make a gap for gas generated in drying process to flow out.)



4. Sinter the dried crown with recommended schedules.

5. Express natural layers of enamel and dentin by dipping.

MULTI LAYER BLOCK

1200 + 600 MULTI (SHADE)

- High transparency of occlusal / incisal
- Gradation of natural shades and strength
- Simplify coloring and increase work efficiency
- 16 VITA Classical shades



Translucency	
Strength	
Esthetics	

Size

Disk Type (Φ = 95 / 98 / 100)
12mm
14mm
16mm
18mm
20mm
22mm
25mm

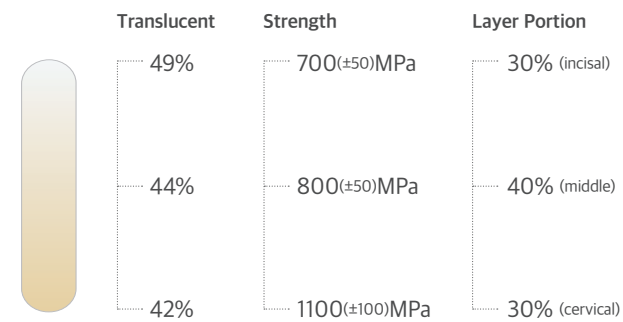
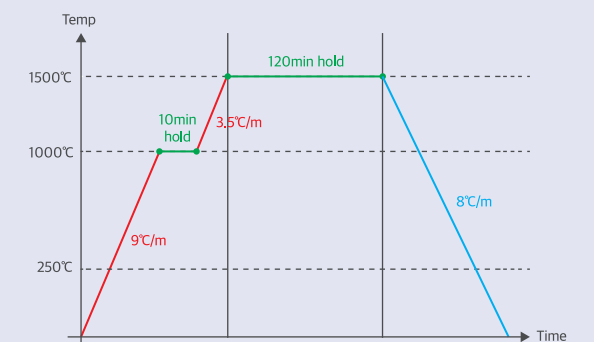
Shade

- MA1, MA2, MA3, MA3.5, MA4
- MB1, MB2, MB3, MB4
- MC1, MC2, MC3, MC4
- MD2, MD3, MD4

Indication



Sintering Schedule



Dr. W. CHOI
Dt. Min Seung Kim
/ Best of Best Dental Clinic

Full zirconia of 14-13-12-11-21-22-23 (7-bridge)
& 24-25 (2-bridge)
44-43-X-X-X-33-34 (8-bridge)
using 1200+600 MULTI MA2



MULTI LAYER BLOCK

1100 MULTI (SHADE)

Natural gradation of shades

Excellent strength to withstand margin chipping and fracture

Gradation block with the same strength from cervical to incisal

16 VITA Classical shades



Translucency				
Strength				
Esthetics				

Size

Disk Type (Φ = 95 / 98 / 100)
12mm
14mm
16mm
18mm
20mm
22mm
25mm

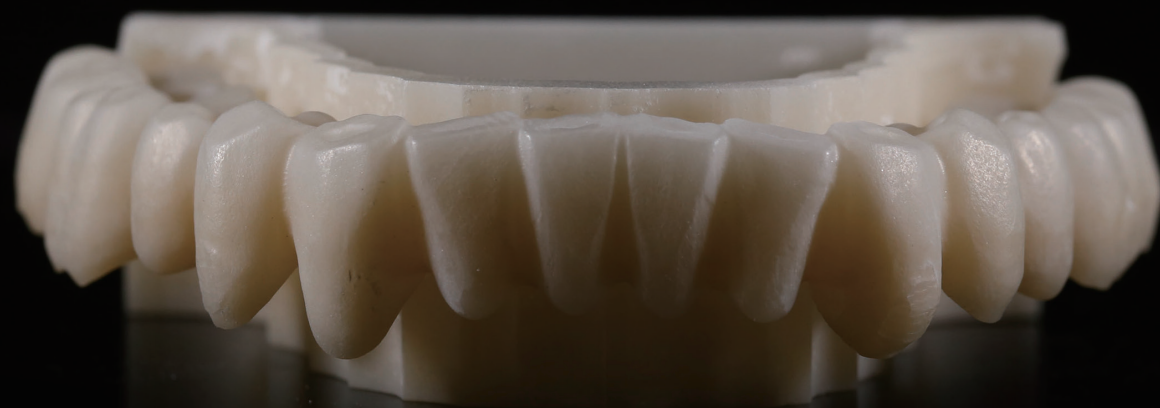
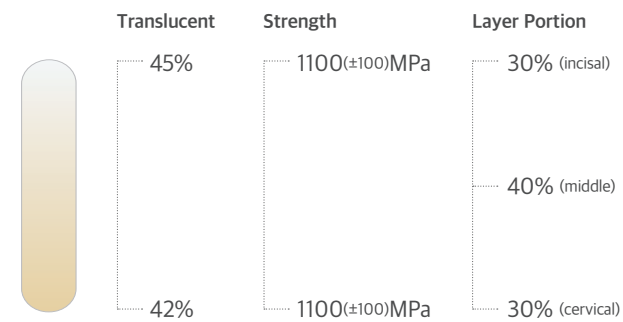
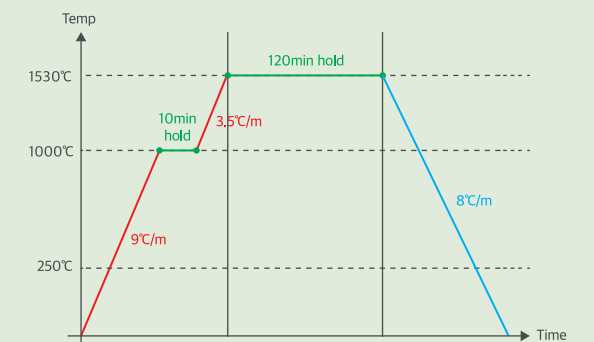
Shade

- A1, A2, A3, A3.5, A4
- B1, B2, B3, B4
- C1, C2, C3, C4
- D2, D3, D4

Indication



Sintering Schedule



Dt. Woo Young Seo
/ Crystal Dental Lab
Full arch using 1100 MULTI A2

PRESHADE BLOCK

600/800 SMILE



High transparency enables to make extra esthetical prosthesis

1100 ENAMEL



Excellent strength and transparency Suitable for various types of prosthesis

1200 ZR



High stability of prosthesis Suitable for long span bridges and implant bridges

Translucency	
Strength	
Esthetics	

Shade	SMS1
	SMS2
	SMS3
	SMS4

Strength 800(±50)MPa

Translucent	48%	46%	44%
	SMS1	SMS2	SMS3

Translucency	
Strength	
Esthetics	

Shade	E1
	E2
	E3
	E4

Strength 1100(±100)MPa

Translucent	44%	42%	40%
	E1	E2	E3

Translucency	
Strength	
Esthetics	

Shade	S1
	S2
	S3
	S4

Strength 1200(±200)MPa

Translucent	40%	38%	36%
	S1	S2	S3

Size

Disk Type (Φ = 95 / 98 / 100)
10mm
12mm
14mm
16mm
18mm
20mm
22mm
25mm

Shade application

VITA SHADE GUIDE	A1	A2	A3	A3.5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4
SMS1 E1 S1																
SMS2 E2 S2																
SMS3 E3 S3																
SMS4 E4 S4																

Clinical Case



Dr. W. CHOI / Dt. Min Seung Kim /
Best of Best Dental Clinic
Full zirconia of 26-27 (2-bridge)
using 1100 ENAMEL E2



Dr. W. CHOI / Dt. Min Seung Kim /
Best of Best Dental Clinic
Full zirconia of 13-12-X-X-22-23 (6-bridge)
43-42-41-31-32-33 (6-bridge)
using 1100 ENAMEL E2

WHITE BLOCK

600/800 SMILE



High transparency enables to make extra esthetical prosthesis

1100 ENAMEL



Excellent strength and transparency
Suitable for various types of prosthesis

1200 ZR



High stability of prosthesis
Suitable for long span bridges and implant bridges

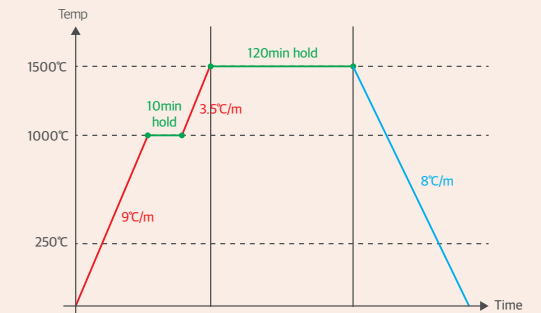
Property	600/800 SMILE	1100 ENAMEL	1200 ZR
Translucency			
Strength			
Esthetics			
White	SMHT	EO	HT OP
Strength	600(±50)MPa	1100(±100)MPa	1200(±200)MPa
Translucent	49%	45%	41%
Indication			

Size

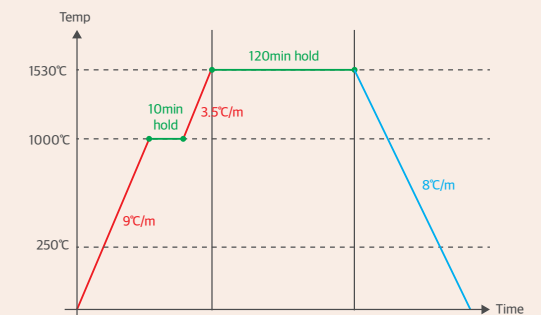
Disk Type (Φ = 95 / 98 / 100)
10mm
12mm
14mm
16mm
18mm
20mm
22mm
25mm

Sintering Schedule

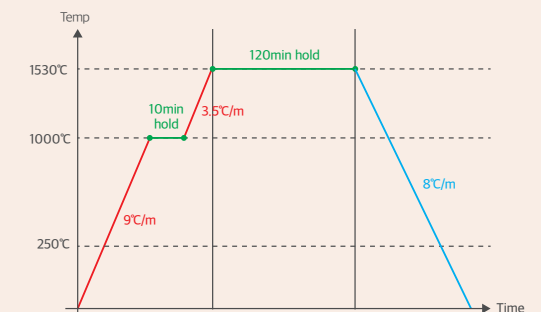
© 600/800 SMILE



© 1100 ENAMEL



© 1200 ZR



* Same for preshade

LUXEN CL

Fast and Convenient making it easy for anyone to express color in Zirconia



DENTIN (50ml)

A1, A2, A3, A3.5, A4
B1, B2, B3, B4
C1, C2, C3, C4
D2, D3, D4

DIPPING DENTIN (50ml)

A1, A2, A3, A3.5, A4
B1, B2, B3, B4
C1, C2, C3, C4
D2, D3, D4

SPECIAL (30ml)

ENAMEL

Enamel 1, Enamel 2, Enamel 3, White Enamel, Enamel EP

TRANSLUCENT

Translucent 1, Translucent 2, T-Glass

OPAL TRANSLUCENT

Natural Gray, Ice Blue

MODIFIER

Yellow, Amber, Brown, White Opaque, White, Creamy White

CERVICAL

Cervical A, Cervical B, Cervical C, Cervical D

GINGIVA

Gingiva 1

PONTIC

Pontic

DILUENT

Diluent



ENAMEL

To express enamel layer, neutralize the color of dentin to adjust the chroma
ⓐ To express enamel layer more, add additional brush after drying



TRANSLUCENT

To express translucency on the occlusal and incisal
ⓐ Brush over the same part of the Enamel liquid



OPAL TRANSLUCENT

To emphasize transparency on the occlusal and incisal partially
ⓐ To emphasize transparency more, brush shorter than Enamel and Translucent liquid



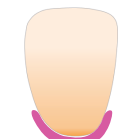
MODIFIER

To express additional chroma on occlusal and interproximal
ⓐ To express the chroma of clear character, use Amber liquid in A & C Shade and use Yellow liquid in B & D Shade
ⓑ Use White Opaque liquid to mask the inner surface opaquely



CERVICAL

To express depth of the chromaticity of the dentin and cervical
ⓐ If dentin or cervical shade is too light, use Cervical liquid to increase the chroma

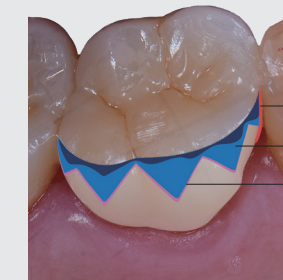
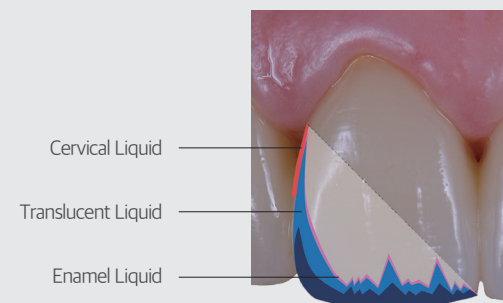


GINGIVA

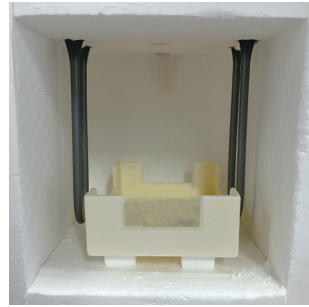
To express gum naturally

PONTIC

To balance chroma levels expressed differently due to different thickness (Preventive effect of reducing chroma level of enamel layer)



LUXEN FURNACE



Point!

Coloring liquid oxides generate oxidizing gas at high temperature that is effectively exhausted by LUXEN Furnace's air purification system

- Prevent contamination caused by oxidizing gas
- Keep the chamber clean at all time



LUXEN EDUCATION

DMD Academy

We provide numerous training and education for the correct use of products

- Domestic and International seminars based on clinical cases by professional technicians
- Product training seminar for partners and technicians
- International seminar organized with global partners



Air circulation system

Exceptional shades can be expressed by discharging GAS generated by burning coloring liquid (metal oxide) that can contaminate the furnace



High durability

Long-term usable 1,900°C MoSi2 hot wire is used
High-performance refractory is used to maintain accurate temperature



Compact size

Compact and cost-effective machine created only with necessary functions

PRODUCT SPEC

Temperature Sensor	THERMOCOUPLE B-TYPE (Φ 0.5mm)
Temperature Measurement Range	0 ~ 1900°C
Input Power	110/220V (50/60Hz)
Power Consumption	1KW
Size of Package Box	350 (W) x 450 (D) x 550 (H)
Size of Furnace	80 (W) x 100 (D) x 100 (H)
Product Weight	35kg
Maximum Operating Temperature	1650°C
Recommended Operating Temperature	Below 1600°C
Heater Type	MoSi2 Heater (1900°C)
Number of Heaters	2EA



DOMESTIC

Hands-on Seminar

INTERNATIONAL

Web Seminar

Hands-on Seminar

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Homepage



Instagram