

DENTAL CERAMICS



FDA ISO 13485 CE 1639

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Version: COP-27-PB-02 B/04

SCIENCE & ART

BAOT®

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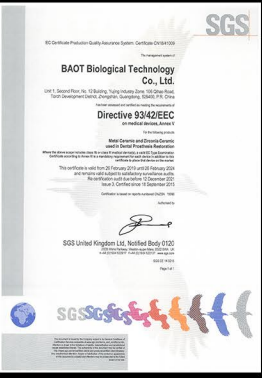
FDA



Medical Device Manufacturing License



CFDA



CE



ISO 13485



Patent

Easy build up, low sintering shrinkage, tight integration of each layer
ISO standard flexural strength, chemical solubility & biocompatibility



PRODUCT SERIES

Metal Ceramic - JC

Type	Packages	Shades	Code
 JC BOND (wash opaque)	  	1	BOND(▲WO)
 OPAQUE	  	16+26	A1/A2/A3/A3.5/A4/B1/B2/B3/B4/C1/C2/C3/C4/D2/D3/D4 B1M1/B1M2/B2L1.5/B2L2.5/B2M1/B2M2/B2M3/B2R1.5/B2R2.5 B3L1.5/B3L2.5/B3M1/B3M2/B3M3/B3R1.5/B3R2.5/B4L1.5/B4L2.5 B4M1/B4M2/B4M3/B4R1.5/B4R2.5/B5M1/B5M2/B5M3
 OPAQUE (bleach shades)	  	2	B1M1 BL1/B1M1 BL2
 OPACIOUS DENTINE	 	16+26	A1/A2/A3/A3.5/A4/B1/B2/B3/B4/C1/C2/C3/C4/D2/D3/D4 B1M1/B1M2/B2L1.5/B2L2.5/B2M1/B2M2/B2M3/B2R1.5/B2R2.5 B3L1.5/B3L2.5/B3M1/B3M2/B3M3/B3R1.5/B3R2.5/B4L1.5/B4L2.5 B4M1/B4M2/B4M3/B4R1.5/B4R2.5/B5M1/B5M2/B5M3
 DENTINE	 	16+26	A1/A2/A3/A3.5/A4/B1/B2/B3/B4/C1/C2/C3/C4/D2/D3/D4 B1M1/B1M2/B2L1.5/B2L2.5/B2M1/B2M2/B2M3/B2R1.5/B2R2.5 B3L1.5/B3L2.5/B3M1/B3M2/B3M3/B3R1.5/B3R2.5/B4L1.5/B4L2.5 B4M1/B4M2/B4M3/B4R1.5/B4R2.5/B5M1/B5M2/B5M3
 DENTINE (bleach shades)	 	2	B1M1 BL1/B1M1 BL2
 ENAMEL	 	3	E-1A(Light)/E-1B(Medium)/E-1C(Dark)
 TRANSPARENT	 	2	T-1(Medium)/▲T-1(High)
 CERVICAL		4	C-1A(Reddish-brown)/C-1B(Reddish-yellow) C-1C(Grey)/C-1D(Reddish-grey)
 MARGIN		4	M-1A(Reddish-brown)/M-1B(Reddish-yellow) M-1C(Grey)/M-1D(Reddish-grey)
 STAIN		17	S-1A(Reddish-brown)/S-1B(Reddish-yellow)/S-1C(Grey)/S-1D(Reddish-grey) S-1A 011(White)/S-1A 012(Transpa white) S-1B 021(Bright yellow)/S-1B 022(Yellow)/S-1B 023(Champagne)/S-1B 024(Orange) S-1C 031(Pink)/S-1C 032(Smoke) S-1D 041(Bright blue)/S-1D 042(Blue)/S-1D 043(Red)/S-1D 044(Dark brown) S-1D 045(Black)
 GINGIVA		3	GIN-1A(Light)/GIN-1B(Medium)/GIN-1B 073(Dark)
 GLAZE		2	G-1/G-1 A (fluorescent)
 T BLUE 1		1	T-1 061
 OPAL 1		1	T-1 062
 NATURAL		1	T-1 063
 OPAL 3		1	T-1 064
 CREAMY		1	T-1 065
 T BLUE 2		1	T-1 068
 AUREOLA		1	T-1 071
 SUN BRIGHT		1	T-1 075
 OCCLUSAL		1	C-1C 003

* Note:
1.JC Bond: 7g package for pasteT or powder
2.Opaque: 5g package for paste

Zirconia Ceramic - ZCG

Type	Packages	Shades	Code
 DENTINE		16+26	A1/A2/A3/A3.5/A4/B1/B2/B3/B4/C1/C2/C3/C4/D2/D3/D4 B1M1/B1M2/B2L1.5/B2L2.5/B2M1/B2M2/B2M3/B2R1.5/B2R2.5 B3L1.5/B3L2.5/B3M1/B3M2/B3M3/B3R1.5/B3R2.5/B4L1.5/B4L2.5 B4M1/B4M2/B4M3/B4R1.5/B4R2.5/B5M1/B5M2/B5M3
 DENTINE (bleach shades)	 	2	B1M1 BL1/B1M1 BL2
 ENAMEL	 	3	E-2A(Light)/E-2B(Medium)/E-2C(Dark)
 TRANSPARENT	 	2	T-2(Medium)/▲T-2(High)
 CERVICAL		4	C-1A(Reddish-brown)/C-1B(Reddish-yellow) C-1C(Grey)/C-1D(Reddish-grey)
 MARGIN		4	M-1A(Reddish-brown)/M-1B(Reddish-yellow) M-1C(Grey)/M-1D(Reddish-grey)
 STAIN		17	S-2A(Reddish-brown)/S-2B(Reddish-yellow)/S-2C(Grey)/S-2D(Reddish-grey) S-2A 211(White)/S-2A 212(Transpa white) S-2B 221(Bright yellow)/S-2B 222(Yellow)/S-2B 223(Champagne)/S-2B 224(Orange) S-2C 231(Pink)/S-2C 232(Smoke) S-2D 241(Bright blue)/S-2D 242(Blue)/S-2D 243(Red)/S-2D 244(Dark brown) S-2D 245(Black)
 GINGIVA		3	GIN-2A(Light)/GIN-2B(Medium)/GIN-2B 273(Dark)
 GLAZE		2	G-2/G-2 A (fluorescent)
 OPAL EFFECT 1		1	T-2 262
 OPAL EFFECT 3		1	T-2 264
 TRANSPA BLUE		1	T-2 268
 OCCLUSAL DENTINE		1	C-2C 203

Formative Liquid

Type	Packages	Code
MODELING LIQUID	240ml	CFS
OPAQUE LIQUID	50ml/240ml	OF
GLAZE & STAIN LIQUID	50ml	GY

OPERATIONAL GUIDELINE

Metal Ceramic - JC



Firing Parameters for Calibrated Furnaces

Condition	Firing					
	Wash Opaque	Opaque	Margin	Body*	Add on	Glaze & Stain
Drying temp.(°C)	550	550	550	550	550	550
Drying time (min)	2	3	3	3	2	2
Heating time (min)	2	3	3	3	2	2
Heating rate (°C/min)	60	60	55	55	55	55
Firing temp.(°C)	960	940	930	920	910	890
Holding time (min)	1	1	1	1	1	1
Cooling time (min)	4	4	4	4	4	4
Cooling temp.(°C)	550	550	550	550	550	550
Vacuum start (°C)	550	550	550	550	550	-
Vacuum end (°C)	960	940	930	920	910	-

Note:

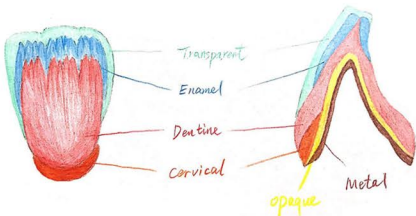
- (1)*“Body” includes Cervical, Opacious Dentine,Dentine,Enamel,Transparent,Gingiva.
- (2) Our recommendation for firing temperature is based on numerous tests.
This firing parameters may be adjusted according to the peculiarities of different furnaces.
It is essential to test firing before production.
- (3) Please refer to “Instruction for Use” for details.

Properties

Properties	JC	ISO standard	SEM after acid etching
CTE*(10 ⁻⁶ ·K ⁻¹)	12.9-13.8	-	
Glass transition(°C)	575	-	
Flexual strength(MPa)	118	>50	
Bonding strength(MPa)	39.5	>25	
Chemical solubility(µg·cm ⁻²)	31.8	<=100	

*CTE(Coefficient of thermal expansion)

Basic Operation



1. Metal framework treatment



- Grinding & Sand blasting
- Ultrasonic/Steam cleaning & oxidization
- WASH OPAQUE & OPAQUE PASTE application & firing

2. Body build-up



- DENTINE build-up
10% larger to compensate the firing shrinkage
- ENAMEL build-up, applying to the incisal 1/3
- TRANSPARENT build-up, applying to the incisal 2/3

3. Glaze & Stain application



- After firing, contouring
- Applying GLAZE & STAIN & firing

OPERATIONAL GUIDELINE

Zirconia Ceramic - ZCG



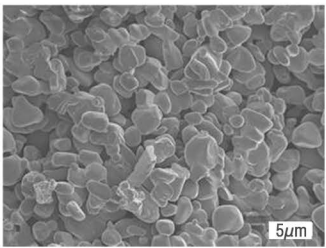
Firing Parameters for Calibrated Furnaces

Condition	Firing			
	Liner	Body*	Add on	Glaze & Stain
Drying temp.(℃)	500	500	500	500
Drying time (min)	2	3	2	2
Heating time (min)	2	3	2	2
Heating rate (℃/min)	50	50	50	50
Firing temp.(℃)	960	920	910	890
Holding time (min)	1	1	1	1
Cooling time (min)	4	4	4	4
Cooling temp.(℃)	550	550	550	550
Vacuum start (℃)	500	500	500	-
Vacuum end (℃)	960	920	910	-

Note:

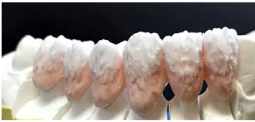
- (1)*“Body” includes Cervical, Opacious Dentine,Dentine,Enamel,Transparent,Gingiva.
(2) Our recommendation for firing temperature is based on numerous tests.
This firing parameters may be adjusted according to the peculiarities of different furnaces.
It is essential to test firing before production.
(3) Please refer to “Instruction for Use” for details.

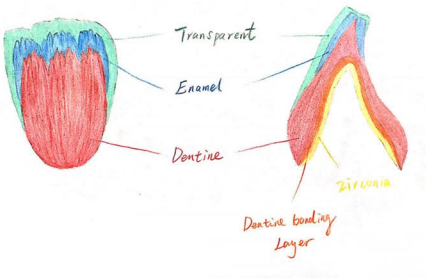
Properties

Properties	ZCG	ISO standard	SEM after acid etching
CTE*(10 ⁻⁶ ·K ⁻¹)	8.9-9.6	-	
Glass transition(℃)	590	-	
Flexual strength(MPa)	106	>50	
Chemical solubility(μg·cm ⁻²)	20	<=100	

*CTE(Coefficient of thermal expansion)

Basic Operation

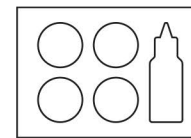
1. Liner			-0.2mm-0.3mm DENTINE bonding layer build-up & firing
2. Body build-up			-DENTINE/ENAMEL/TRANSPARENT build-up & firing
3. Add-on build-up			-DENTINE/ENAMEL/TRANSPARENT build-up & firing
4. Glaze & Stain Application			-After contouring, Applying GLAZE & STAIN & firing





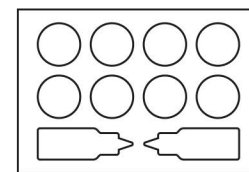
TRIAL KITS

Metal Ceramic Kit



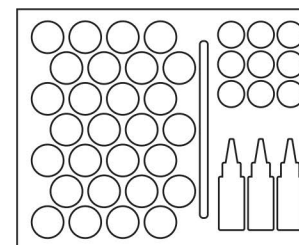
Mini Kit

Opaque : A2 (2g/pc)
Dentine: A2 (5g/pc)
Enamel: E-1B (5g/pc)
Transparent: ▲T-1 (5g/pc)
Modeling Liquid:CFS (15ml/pc)



Basic Kit

JC Bond: BOND (2g/pc)
Opaque: A2/A3 (2g/pc)
Dentine: A2/A3 (5g/pc)
Enamel: E-1B (5g/pc)
Transparent: ▲T-1 (5g/pc)
Glaze: G-1 (3g/pc)
Modeling Liquid: CFS (15ml/pc)
Opaque Liquid: OF (15ml/pc)



Master Kit

JC Bond: BOND (7g/pc)
Opaque: A2/B3/C2/D3 (5g/pc)
Opacious Dentine:A2/B3/C2/D3(15g/pc)
Dentine: A2/B3/C2/D3 (15g/pc)
Enamel: E-1A/B/C (15g/pc)
Transparent:T-1(medium&high)(15g/pc)
Gingiva:GIN-1A/B (15g/pc)
Cervical:C-1A/B/C/D (15g/pc)
Margin:M-1A/B/C/D (15g/pc)
Opal 1:T-1 062 (15g/pc)
Opal 3:T-1 064 (15g/pc)
T Blue 2:T-1 068 (15g/pc)
Occlusal: C-1C 003 (15g/pc)
Stain: S-1A/B/C/D (3g/pc)
Modeling Liquid: CFS (50ml/pc)
Glaze & Stain Liquid: GY (50ml/pc)
Opaque Liquid: OF (50ml/pc)
Brush-No.7

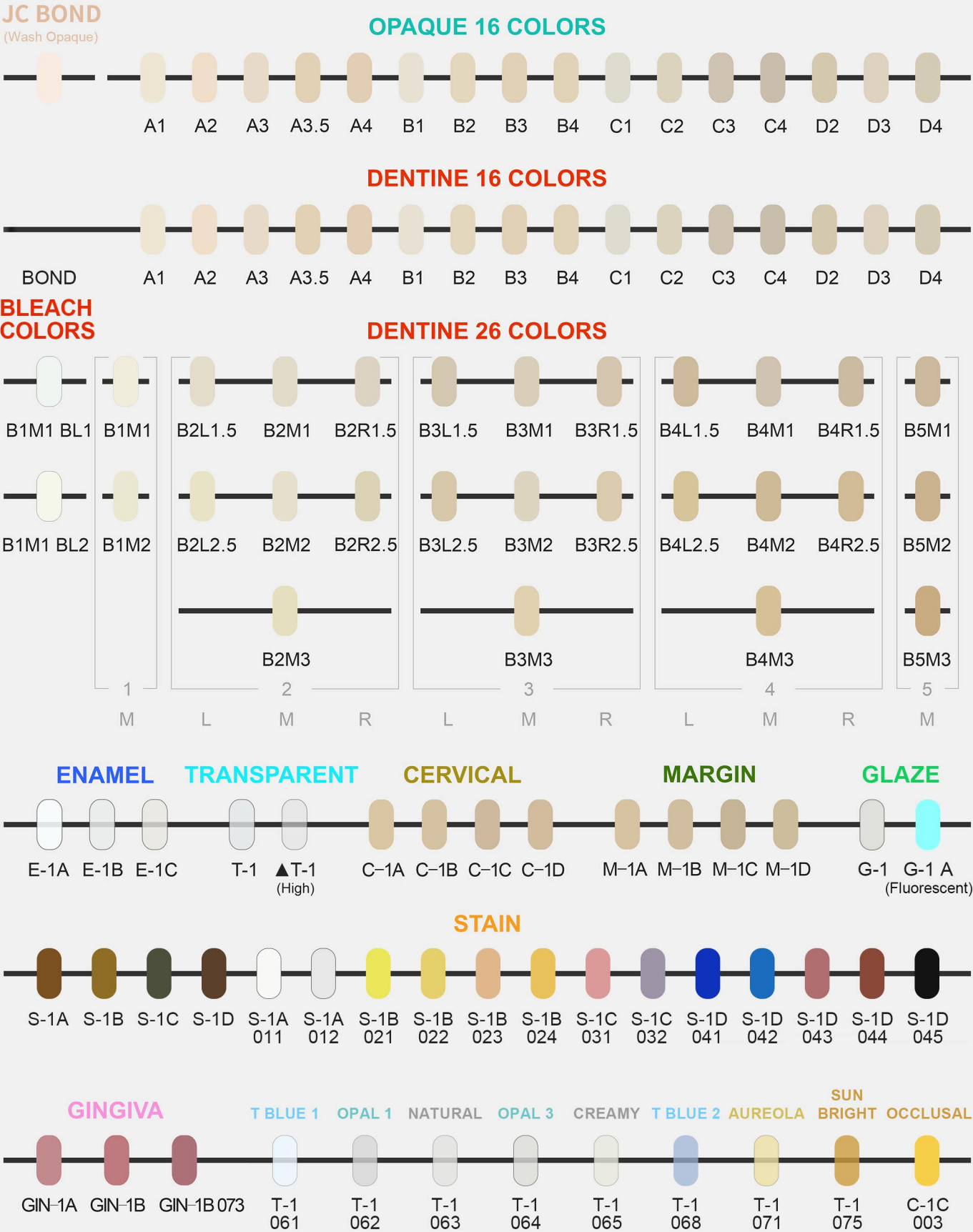
Zirconia Ceramic Kit

Opaque : A2/A3 (5g/pc)
Dentine: E-2B (5g/pc)
Transparent: ▲T-2 (5g/pc)
Modeling Liquid:CFS (15ml/pc)

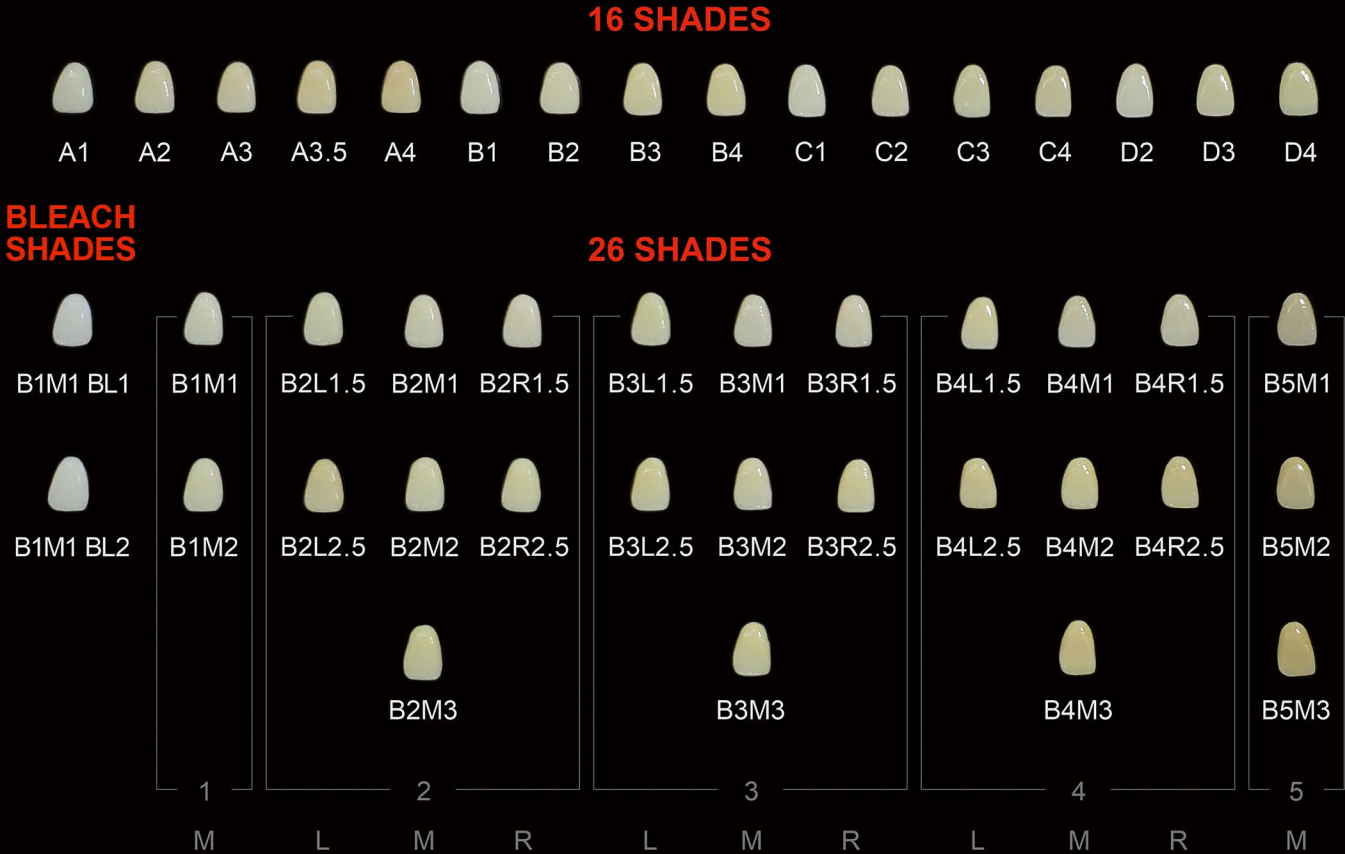
Dentine:A2/A3/B1/C2/D3 (5g/pc)
Enamel: E-2B (5g/pc)
Transparent: ▲T-2 (5g/pc)
Glaze: G-2 (3g/pc)
Modeling Liquid: CFS (15ml/pc)
Glaze & Stain Liquid: GY (15ml/pc)

Dentine: A1/A2/A3/A3.5/A4/B1/B2/B3/B4/
C1/C2/C3/C4/D2/D3/D4 (15g/pc)
Enamel: E-2A/B/C (15g/pc)
Transparent:T-2(medium & high) (15g/pc)
Gingiva:Gin-2A/B(medium & high) (15g/pc)
Stain: S-2A/B/C/D (3g/pc)
Modeling Liquid: CFS (50ml/pc)
Glaze & Stain Liquid: GY (50ml/pc)
Brush-No.7

COLOR CHART



SHADE GUIDE





かわばた まさし
Masashi Kawabata

Master in Japan for **25 years**
Running TEETH HAT Studio
for **18 years** in Japan
Producing more than **150000**
crowns

WORKS GALLERY SCIENCE & ART




Volker Lauven

Master in Australia for **25 years**
My specialty field is "cosmetic smile makeovers."
My aim is to offer the predictable all ceramics restorations
and help create beautiful smile



Orlando Ordóñez Branez
Orlando Ordóñez Branez

Master in Bolivia for **20 years**

WORKS GALLERY SCIENCE & ART



Larios Montano
Ernesto Larios Montano

Master in Salvador for **16 years**

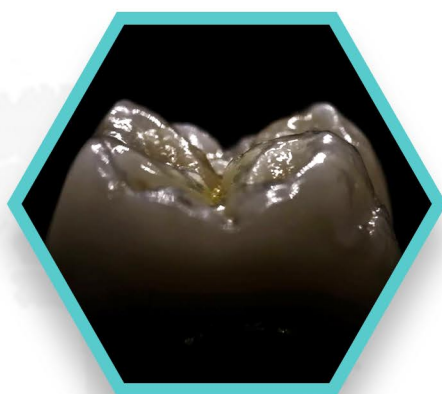
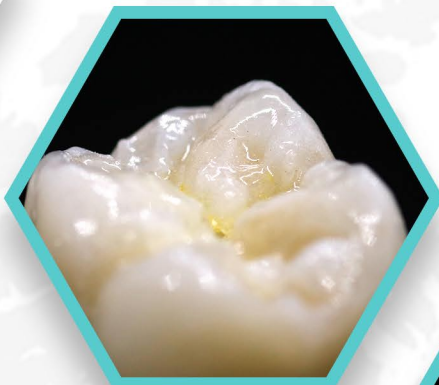




David Alvarez

David Alvarez Gavila

Master in Spain for **28 years**



Marcelo Cagnone
Marcelo Cagnone

Master in Argentina for **27 years**



**WORKS
GALLERY**
SCIENCE & ART