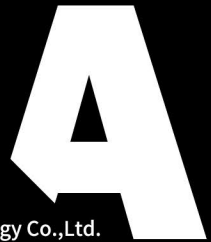


Aidite



Aidite (Qinhuangdao) Technology Co.,Ltd.

Tel : 0086-335-8587898

Fax: 0086-335-8587198

Email: info@aidite.com

NMPA ISO13485 CE0197 FDAK111291



Biomic™ Stain/Glaze

Gum

*Simulation or mimic,
the final purpose is initial natural*



The development of the Biomic Gum

Follows the internal structure and tissue generation of the natural gum to design the color. It is different from common staining or porcelain powder. It can assist dental technicians to make implant restorations by using a simple and fast way, achieving lifelike bionic gum restoration.

Kangqi

Why choose Biomic Gum?

Fast gum aesthetics

It can replace all kinds of dyes for staining operation, because it is suitable for various manufacturers and various types of ceramic restoration, there is no need to prepare different dyes for different materials of restoration any more.



Simple to use

The color design concept of Biomic Gum is universal mixing. In addition to being mixed with each other, it can also be mixed with the pastes in the original Biomic kit. The color classification of the gum color is based on the naming method of the larger the number, the darker the color, and the logic is simple to avoid confusion during operation. Coupled with Aidite's use training, technicians can quickly master its use after simple learning.

Bionic aesthetics

The color definition of Biomic Gum completely simulates natural gingival color, which also contains special colors that can simulate blood vessels. The bionic aesthetic effect of the stained zirconia restoration is reflected to the extreme.

GUM KIT

Biomic Gum Kit List

This new kit of Biomic Gum provides 6 kinds of pink color, which can be used together to imitate different colored gums. Also one color shade guide and one 3D Brush are included. With the use of them, you can complete higher-level staining and obtain a more ideal bionic aesthetic experience.



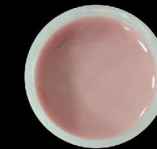
2D Paste	Pink5/PinkR	3D Paste	Pink1/Pink2/Pink3/Pink4/3DN/3DV
Liquid	Coloring Liquid 1/Coloring Liquid 2	Accessory	3D Brush/6 Shades Guide

Color Display



Pink 1

Cream pink, suitable for free gum area and bone contour area.



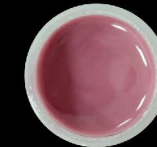
Pink 2

Neutral pink, suitable for the main color area, can be freely mixed with Pink R and Pink 5 to adjust the color of the main color area of the gums.



Pink 3

Purple pink, suitable for mucosal area.



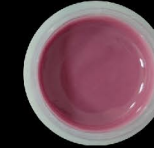
Pink 4

Dark red, suitable for enhancing the contrast and staining of the gum area.



Pink 5

Blood vessel red, suitable for simulating the color of blood vessels in the gum area.



Pink R

Suitable for shade modification of white zirconia and mixing other pink pastes to adjust color density.



3DV

Milky white transparent 3D paste, can be used to mix to reduce color density and improve whiteness.



3DN

Transparent 3D paste, can be used to mix to reduce color density and improve translucency.

Biomic® Technical Parameter

Certification

Medical Device Registration of the People's Republic of China, CE Certification 0197, FDA Certification

Indication

- Only external staining on gingival parts of the zirconia and glass ceramic framework.
- Micro layering on gingival parts of the zirconia and glass ceramic framework.
- External staining on gingival porcelain of the zirconia and glass ceramic framework for color modification.



Physical data

	Test standard	Measurements	Values
Coefficient of thermal expansion	ISO 6872:2015	CTE(25°/-Tg)[10 ⁻⁶ K ⁻¹]	2Dpaste=8.6 3Dpaste=9.1
Flexural strength(3 point flex test)	ISO 6872:2015	>50 MPa [10 ⁻⁶ K ⁻¹]	>115 MPa
Chemical solubility	ISO 6872:2015	<100µg/cm ²	≈30µg/cm ²
Transformation temperature	ISO 6872:2015	—	≈480°C-490°C

Biomic Gum 2D&3D

2D Paste

- Pink 5 and Pink R are 2D gum color paste.
- The viscosity of the paste is moderate, and it can be evenly applied to the surface of any ceramic restoration. It will not collapse and flow, making the paste system easy to use.
- All pastes have ideal high light transmittance and fluorescence. The restoration will exhibit life-like effects with great light transmission, with natural fluorescence.
- Paste mixed with ceramic powder, creates a higher strength after sintering. This can effectively improve the anti-wear performance of the product in clinical use.
- Pink 5 is a newly developed paste that can create the blood vessel structure inside the gums.

3D Paste

- Pink 1, Pink 2, Pink 3, Pink 4 are 3D gum color paste.
- 3DN can be mixed with other 3D gum color pastes to reduce concentration and brightness.
- 3DV can be mixed with other 3D gum color pastes to reduce the concentration without reducing the brightness.
- The 3D paste has a high degree of plasticity and can be used to build up the bionic shape of the gums by using the micro-casting method.



Biomic Stain/Glaze Coloring Liquid



Coloring Liquid 1

- Coloring Liquid 1 is used for all 2D staining pastes and serves as a diluent. If a thin layer of paste needs to be applied, it can be used to reduce the viscosity of the paste.
- When the Glaze-F paste is too thick, you can use the coloring liquid 1 to reduce the viscosity of the paste. The Glaze-F paste with the coloring liquid 1 added can be thinner and have a glazing effect.
- Before using the coloring liquid 1, stir the paste thoroughly with a glass rod to achieve good consistency before adding and adjusting. Too much use of the coloring liquid 1 may affect the operation.
- Do not add the coloring liquid 1 directly into the paste bottle and stir it. It is recommended to mix it with the paste on the palette. Be sure that the paste has been mixed thoroughly to the correct consistency.



Coloring Liquid 2

- Coloring liquid 2 is used for all 3D pastes. If the 3D paste has dried, it can be adjusted with coloring liquid 2.
- Coloring liquid 2 is used to adjust the viscosity of the 3D paste without affecting the characteristics of the 3D paste itself.
- If 3D paste is mixed with other liquids, it will have adverse effects on the entire procedure.
- Coloring liquid 2 contains liquid glass components. After use, cover the bottle to avoid liquid solidification or precipitation.

Note: To increase fluidity during the basic operation of the Biomic Gum kit, please use liquid 2 to avoid dilution. If you are sure to dilute the concentration, use liquid 1.

Processing Tips

- Low-temperature powder can be mixed into Glaze-F to form a special paste. If it is too thick, it can be mixed with coloring liquid 1.
- If you want to make a special color 3D paste, just mix the powder with 3D Natural, and add the coloring liquid 2 to adjust the consistency as needed for easy operation.
- All the surfaces of all-ceramic crowns can be adjusted with 3D paste.
- The 3D pastes contain porcelain powder, which will increase the thickness after sintering, and can be used to increase the occlusal contact area, abutment surface and incisal length.
- When micro-cutting the full crown, 3D paste can be directly used after dyeing to achieve the same effect as porcelain.
- To reduce the surface brightness of the restoration after sintering, the sintering temperature can be reduced to 715 °C.
- To improve the surface brightness of the restoration after sintering, the sintering temperature can be increased to 750 °C.
- You can increase or decrease the surface brightness of the restoration by manual polishing after glazing.
- Under normal operation, white zirconia does not need to use pink coloring liquid for internal dyeing treatment, and can be directly dyed with the gum suit.
- If you need strong chroma, you can use Pink R or Pink 5 to cover the surface of the framework first.
- Can be used to enhance the color of gum after porcelain and repair surface defects.



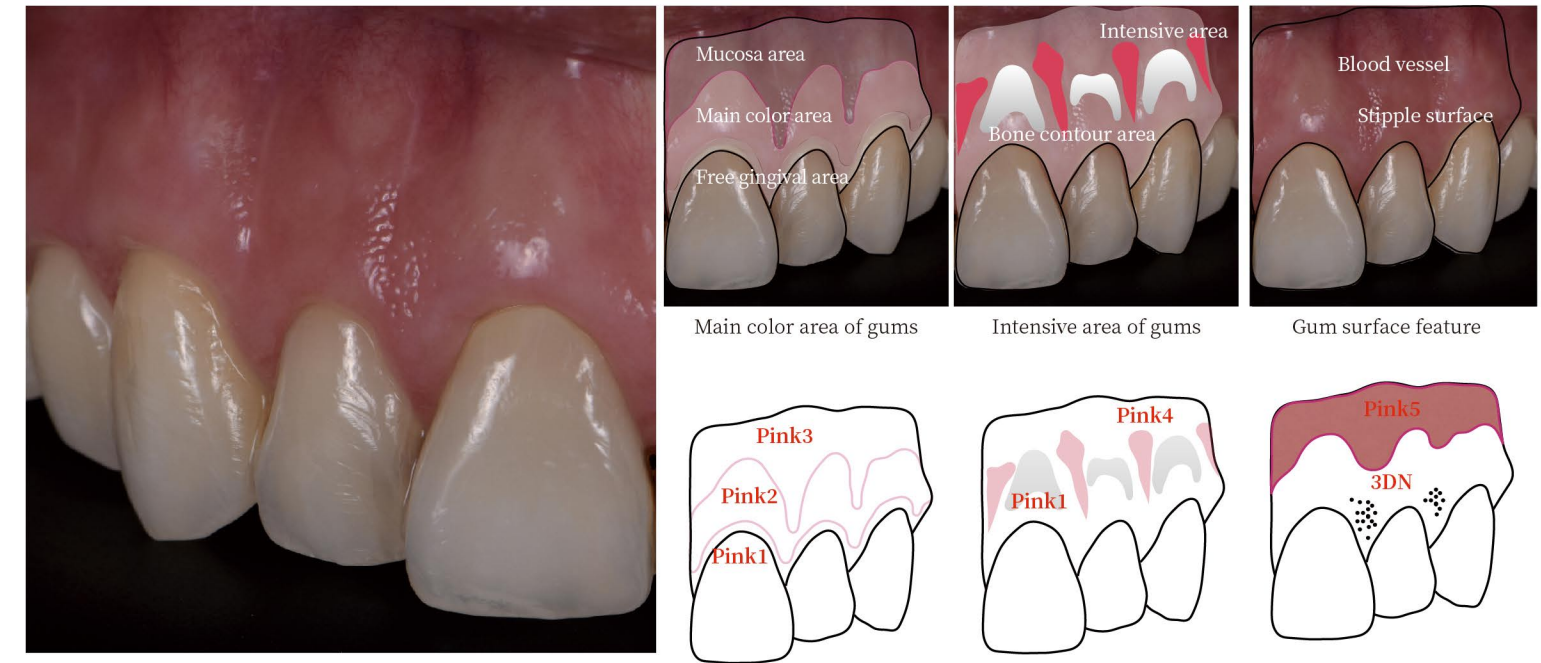
Sintering Chart

	Temperature at start(°C)	Drying time (min)	Heat rate (°C/min)	Start(°C)	End(°C)	Sintering temperature (°C)	Holding time (min)	Slow cooling (min)
First sintering (2D paste/3D paste/Glaze-F)	450	8	55	450	730	730	1	-
Second sintering (2D paste/3D paste/Glaze-F)	450	8	55	450	720	720	1	-
Fast sintering (Only using Glaze-F)	450	2	99	450	720	720	0.5	-
Zirconia Long Bridge Sintering (4-7 units)	450	8	40	450	730	730	1	5
Zirconia Long Bridge Sintering (8 units or more)	450	10	30	450	730	730	1	10

Please note when sintering the long bridge restoration:

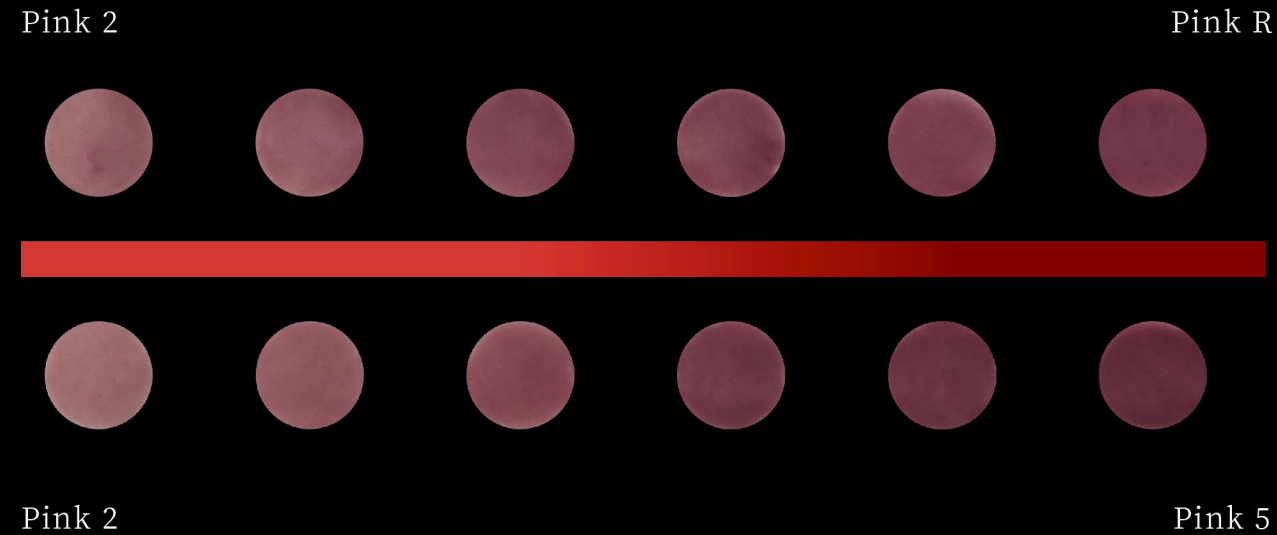
- Reduce the heating rate appropriately to improve the sintering quality.
- Extending the holding time can compensate for poor heat conduction of zirconia.
- Extend the cooling time to avoid stress cracks caused by rapid cooling of zirconia.
- It is recommended to use slow cooling for all sintering procedures of the framework.

Gum Structure

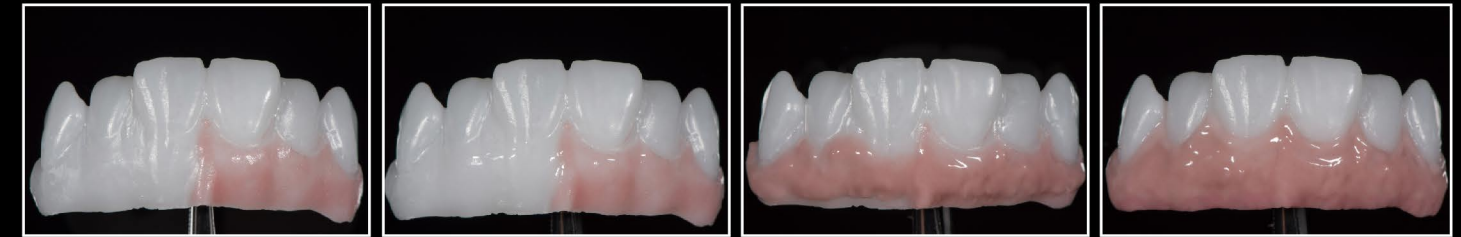


Color Mixing

Each gum color in the set corresponds to an area of the gums. If the color is not dark enough, you can mix it with Pink 5 or Pink R to increase the density and opacity.



Simulation Layering Method

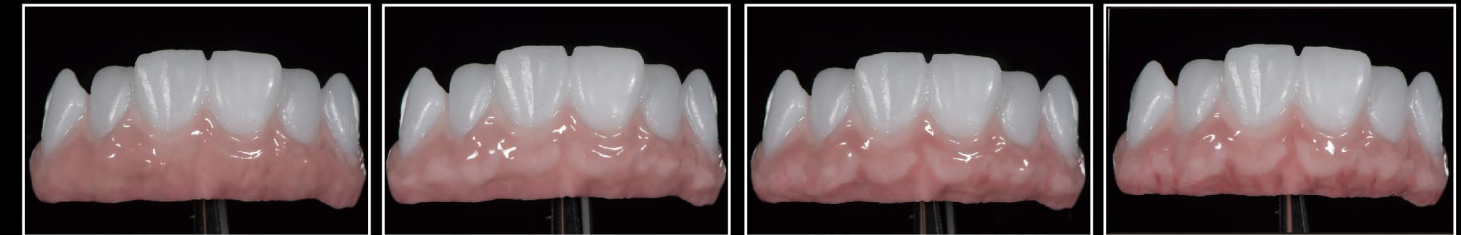


1. Steam cleaning of the restoration before glazing.

2. Coat a thin layer of coloring liquid 2 on the surface.

3. Use Pink 2 to coat the main color area.

4. Use Pink 3 to coat the mucosa area.



5. Use Pink 1 or Pink 1 mixed with 3DN to coat the free gingival area.

6. Use Pink 1 or Pink 1 mixed with 3DN to coat the bone contour area.

7. Use Pink 4 to coat the intensive area.

8. Use Pink 5 to simulate blood vessels in the mucosal area.

Simulation Layering Method



9. Sinter the restoration according to the recommended sintering procedure.



10. The layer stacking method will produce a slight increase in thickness, please ensure that the material has sufficient drying time.



11. Complete the first sintering.



12. Use 3DN to coat the gum surface to produce stipple effect.



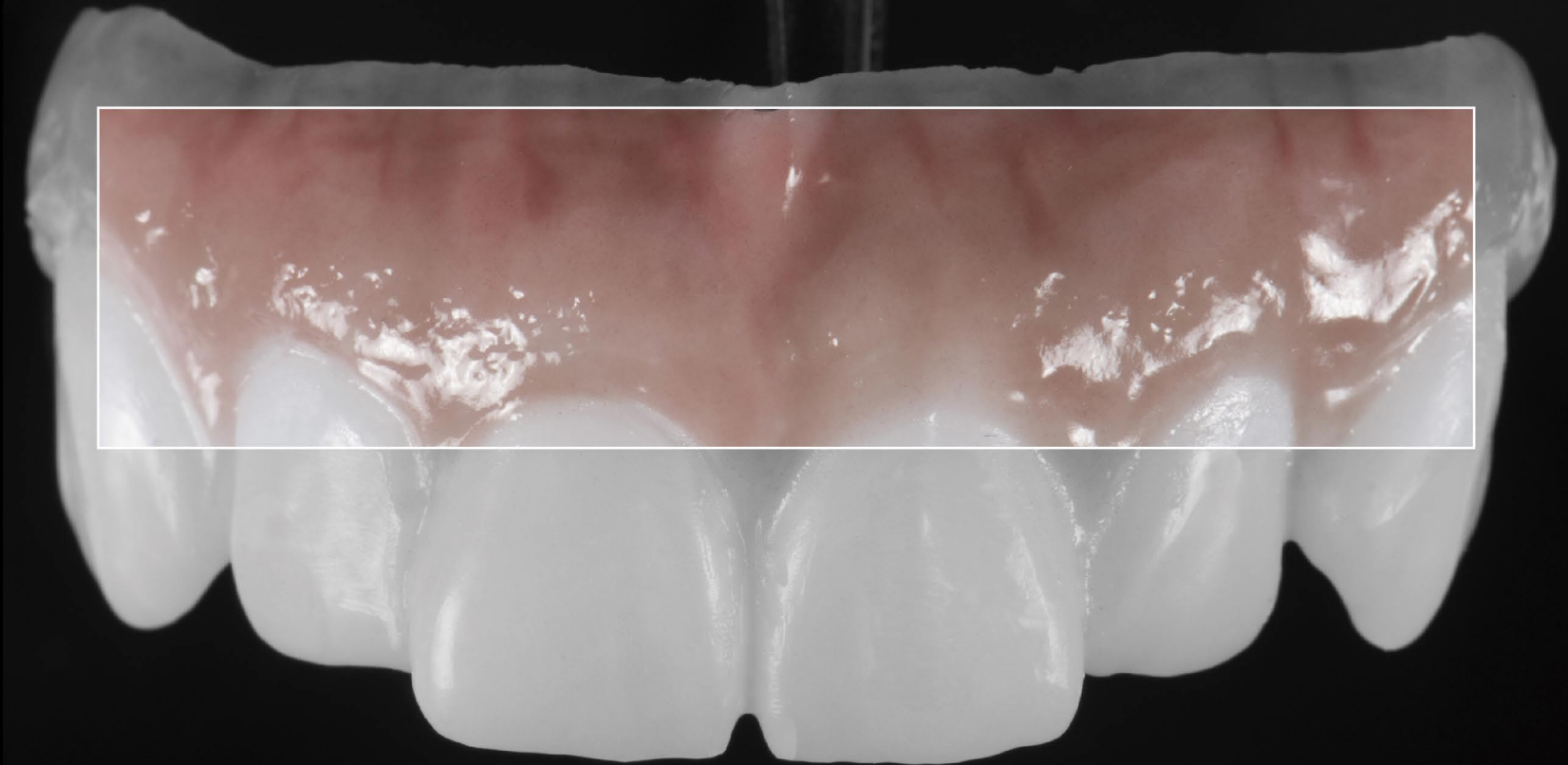
13. Stipple effect can be made by using a pen tip after drying 3DN slightly.



14. Follow the recommended sintering procedure for the second sintering.



15. Manually polish the surface.



Fast Staining Method



1. After the surface is treated and steam cleaned, apply a thin layer of coloring liquid 2 and make a primer.



2. Use Pink R to coat the gum area, and use coloring liquid 2 to adjust the saturation.



3. Use Pink 5 to coat the main color area for comparison.



4. Follow the recommended sintering procedure for sintering.



5. The surface is coated with a thin layer of 3DN or Pink 2 mixed with 3DN to create depth effect.



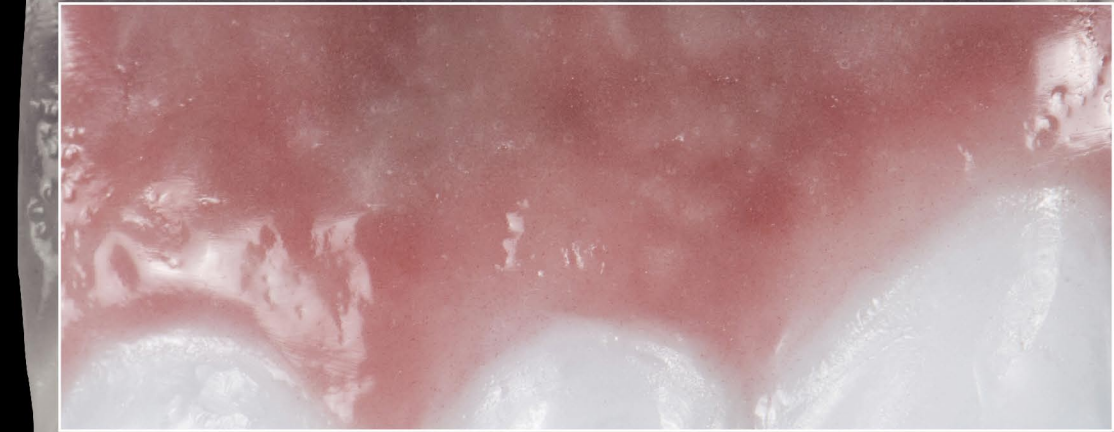
6. Dry the surface slightly and use the pen tip to create an stipple effect.



7. Follow the recommended sintering procedure for sintering.



8. Manually polish the surface.



Biomic Stain/Glaze Product List

Product code	Product specifications	Product name
Biomic Gum Kit		
Biomic Gum Kit	Kit	ACStainGum
Paste		
Pink 1	4g	ACStain1 - Pink
Pink 2	4g	ACStain2 - Pink
Pink 3	4g	ACStain3 - Pink
Pink 4	4g	ACStain4 - Pink
Pink 5	4g	ACStain5 - Pink
Pink R	4g	ACStainR - Pink
3DV	4g	AC3DV
3DN	4g	AC3DN

Product code	Product specifications	Product name
Coloring Liquid		
Coloring Liquid 1	25ml	ACMF1-25
Coloring Liquid 2	25ml	ACMF2-25
Brush		
3D Brush	1branch	Biomicbrush-3D
Shade Matcher		
Shade matcher	1slice	ACO113



 **Biomic Gum**



 **Biomic**

Kangri