



Introducing

BSM

BeSmile Zirconia

The New Era of Dental Prosthetics

Aconia® Zirconia

Zirconia Blanks, used in dental restorations like crowns and bridges, offer a blend of aesthetics, strength, and biocompatibility. They closely mimic natural teeth in appearance, ensuring a visually pleasing result. Renowned for their durability, zirconia restorations withstand biting and chewing forces effectively. These blanks are compatible with CAD/CAM technology, enabling precise, custom fittings. Additionally, their low thermal conductivity enhances patient comfort by minimizing sensitivity to temperature changes. Available in various translucency levels, zirconia blanks cater to diverse dental needs, combining functionality and aesthetics in modern dentistry.



Aconia® Zirconia

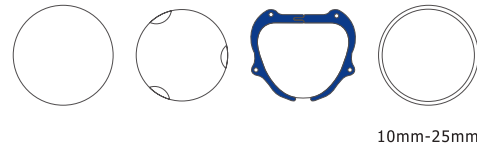
ST

Create the universal smile: the classic solution

- Strong with good millability
- Attractive translucency with outstanding strength 1250Mpa
- Wide indications from coping to long-span bridge
- Easy and fast coloring



Technical data	
Flexural strength(3-point)	1250±100 Mpa
Translucency	43%
Vickers-hardness HV10	1300±50
Density	>3 (g/cm ³)
Sintered Density	>6.02 (g/cm ³)
Chemical solubility	<50(µg/cm ²)
Radioactivity	<0.1/Bq.g ⁻¹
Fracture toughness	>5.5/(Mpa.m ^{1/2})
CTE	(10.5±0.5)*10 ⁻⁶ K ⁻¹



Indication						
Inlay & Onlay	Full contour crown	Coping	Full contour anterior bridge (3 unit)	Full contour posterior bridge (3 unit)	Full contour bridge (≤7 unit)	Full contour bridge (≤14 unit)

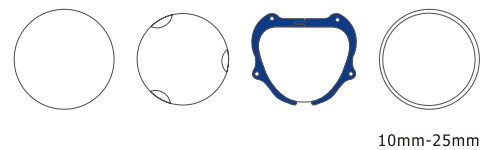
HT⁺

Create the unwavering smile: the economical solution

- The extraordinary strength of 1400Mpa grants a high level of process safety
- Easy veneering & individualizing
- Best option for coping & abutment



Technical data	
Flexural strength(3-point)	>1400 Mpa
Translucency	42%
Vickers-hardness HV10	1300±50
Density	>3 (g/cm ³)
Sintered Density	>6.02 (g/cm ³)
Chemical solubility	<50(µg/cm ²)
Radioactivity	<0.1/Bq.g ⁻¹
Fracture toughness	>9/(Mpa.m ^{1/2})
CTE	(10.5±0.5)*10 ⁻⁶ K ⁻¹



Indication							
Inlay & Onlay	Full contour crown	Coping	Full contour anterior bridge (3 unit)	Full contour posterior bridge (3 unit)	Full contour bridge (≤7 unit)	Full contour bridge (≤14 unit)	Abutment

Aconia® Zirconia

ST-Preshade

Create the best smile with speed

- Outstanding strength of 1250MPa combined with ideal translucency
- A wide range of indications for restorations from coping to long-span bridge
- Reproduce Vita shades perfectly
- Stable and reproducible results



Technical data	
Flexural strength(3-point)	1250±100 Mpa
Translucency	43%
Vickers-hardness HV10	1300±50
Density	>3 (g/cm ³)
Sintered Density	>6.02 (g/cm ³)
Chemical solubility	<50(µg/cm ³)
Radioactivity	<0.1/Bq.g ⁻¹
Fracture toughness	>5.5/(Mpa.m ^{1/2})
CTE	(10.5±0.5)*10 ⁻⁶ K ⁻¹

Indication						
Inlay & Onlay	Full contour crown	Coping	Full contour anterior bridge (3 unit)	Full contour posterior bridge (3 unit)	Full contour bridge (≤ 7unit)	Full contour bridge (≤14unit)

SHT-Preshade

Create the best smile with high efficiency

- Excellent strength combined with 46% translucency
- A wide range of indications for full contour restorations
- Reproduce Vita shades perfectly
- Efficiency and ideal results



Technical data	
Flexural strength(3-point)	1000±100 Mpa
Translucency	46%
Vickers-hardness HV10	1300±50
Density	>3 (g/cm ³)
Sintered Density	>6.02 (g/cm ³)
Chemical solubility	<50(µg/cm ³)
Radioactivity	<0.1/Bq.g ⁻¹
Fracture toughness	>5/(Mpa.m ^{1/2})
CTE	(10.5±0.5)*10 ⁻⁶ K ⁻¹

Indication							
Inlay & Onlay	Reduced crown	Full contour crown	Coping	Full contour anterior bridge (3 unit)	Full contour posterior bridge (3 unit)	Full contour bridge (≤7 unit)	Full contour bridge (≤14 unit)

Aconia® Zirconia

Aconia® 3D Multilayer Technology



Percentage above represents the thickness of each parts in the disc

- 3D - Shade+Strength +Translucency
- Excellent esthetic properties with integrated shade and seamless gradient
- Efficient, economical processing without the staining procedure
- Simplified Zirconia material selection through wide indication application options
- Simplified the nesting process
- Consistent color matching

What is 3D Multilayer?

- 1 Gradient Chroma:**
Increasing chroma from the top to bottom.
- 2 Gradient translucency:**
Increasing translucency from bottom to top
- 3 Gradient flexural strength:**
Increasing flexural strength from top to bottom

3D Multilayer	Translucency	Flexural strength
Aconia® <i>TTML</i>	49% ↕ 46%	600MPa ↕ 900MPa
Aconia® <i>SHTML</i>	46% ↕ 43%	900MPa ↕ 1100MPa

Coloring Liquids Standard & Master



50ml

Standard

- Precisely matched to VITA® 16 color system
- Well-suited for both dipping and brushing (paint-on) methods
- Fast-coloring & no color difference between pontic and neighboring crowns
- Ideal results applied on Aconia white blanks by Aconia Coloring Technology

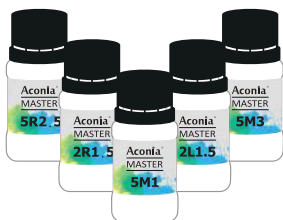
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Master

- Precisely matched to VITA® 26 color system
- Well-suited for both dipping and brushing (paint-on) methods
- Fast-coloring & no color difference between pontic and neighboring crowns
- Ideal results applied on Aconia white blanks by Aconia Coloring Technology

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50ml

Aconia® Zirconia

Artist



Artist
20ml

- Restore realistic, naturally lifelike appearance
- Reproduce rare and special colors
- Create esthetic art effect
- Enable individualized customization
- Start coloring process without preparing and mixing
- Deliver ideal results when applied on Aconia blanks



Special colors

Magic value	V1: Opaque	V2: Grey	V3: Blue			
Natural gingival	G1: Pink	G2: Red	G3: Violet			
Incisal translucency	TO2: Incisal Blue	TO3: Incisal Grey				
Art fissure	P1: Sunrise	P2: Sunset	P3: Olive	O1: Orange	O2: Brown	O3: Vanilla

Stain & Glaze

Easy Operation

- With medium consistency, the paste will not fall apart or agglomerate easily.
- The paste can be applied evenly on the surface of zirconia and glass ceramics restoration.

Ultimate aesthetics

- The fluorescence component in the paste gives lifelike effect on the restorations.
- With the brightening component, coloring and glazing can be done at one time.



STAIN & GLAZE



Art.No.	Shade	Application
BSC 1	A	Mainly composed of red, yellow and little gray, used for dentin shade.
BSC 2	B	Mainly composed of dark yellow, little red and little gray, used for dentin shade.
BSC 3	C	Mainly composed of gray and little yellow, used for dentin shade.
BSC 4	D	Mainly composed of yellow, gray and little red, used for dentin shade.
BSC 5	Glaze	Provides gloss with transparency to the surface of the restoration.
BSC 6	Yellow	Yellow based with little red. Applied to give a yellowish tint, can be mixed with the 4 dentin shade.
BSC 7	Brown	Composed of brown and gray. Applied to reproduce dark brown stain.
BSC 8	Light Brown	Composed of yellow, little red and little gray.
BSC 9	Black	Applied to decrease the value of the chroma, can be mixed with the 4 dentin shades.

Art.No.	Shade	Application
BSC 10	Blue	Mainly applied to incisal part, to increase translucency.
BSC 11	White	Applied to create a crack effect, also for an opaque effect.
BSC 12	Pink	Applied to gingival area, also can be mixed with the 4 dentin shades.
BSC 13	Orange	Yellow based with a little red and gray shade.
BSC 14	Terracotta	Mainly composed of yellow and red, with a little black shade, applied to fissure.
BSC 15	Purple-gray	Purple based with a little gray shade, applied to incisal part, to increase the translucency.
BSC 16	Red	Applied to gingival area.
H	Blending liquid	Applied to adjust the paste consistency.



STAIN & GLAZE

CTE	(25°C-500°C) $(10.3 \pm 0.5) \times 10^{-6} K^{-1}$
Chemical stability	$< 100 \mu g/cm^2$
Storage	Room Temperature
Product specifications	Paste: 4g/bottle Blending liquid: 25ml/bottle
Strength	$> 50 MPa$

Indications

- veneering ceramics
- glass ceramics
- zirconium oxide (frameworks and full-contour restorations)



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