



VITA

VITA YZ® ZIRCONIA

The essentials for indication, preparation,
bonding and polishing

Product	Details
	VITA YZ® MULTI TRANSLUCENT The latest generation of premium zirconia (4Y-TZP cervical, 5Y-TZP incisal) combines the highest flexural strength with a natural shade and translucency gradient.
	VITA YZ® XT^{Multicolor} – extra translucent ZrO₂ blanks VITA YZ XT Multicolor impresses with its high translucency (50%) and good flexural strength.
	VITA YZ® ST^{Multicolor} – super translucent ZrO₂-blanks VITA YZ ST Multicolor stands out, thanks to its consistently high strength of 1,200 MPa and impressive esthetics. The super translucent material offers a translucency of 46%.
	VITA YZ® HT – highly translucent ZrO₂ blanks The VITA YZ HT are highly translucent ZrO₂ blanks for natural, individual, fully veneered substructures.

Overview	Benefits	Workflow	Recommended indications	Gradient portfolio	Preparation guidelines VITA YZ XT	Preparation guidelines VITA YZ MULTI TRANSLUCENT/ST	Preparation guidelines VITA YZ HT	Polishing	Self-adhesive bonding	References
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VITA YZ ZIRCONIA offers remarkable strength and exceptional esthetics for reliable restorations. VITA YZ materials enable the precise and accurate shade production of fully / partially veneered and monolithic restorations. Discover the advantages.



- High shade accuracy and vivid chroma for exceptional esthetics ¹⁻⁴
- Proven long-term clinical stability and biocompatibility ⁵⁻⁷
- High strength for the reliable restoration of teeth and implants ⁸⁻¹⁰
- Easy and reliable polishing ¹¹
- Tested material structure for reliable processing, veneering and integration ¹²⁻¹⁸
- Precise, outstanding fit ^{19, 20}
- Restoration that preserves the tooth structure, thanks to reduced wall thickness ²¹⁻²³

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Dental technical workflow



Our product recommendations

Digital shade determination

- VITA Easyshade V
- VITA Easyshade LITE

Visual shade determination

- VITA classical A1-D4 shade guide
- VITA Toothguide 3D-MASTER

Polishing instruments

- VITA CERAMICS Polishing Set clinical
- VITA CERAMICS Polishing Set technical

Polishing paste

- VITA Polish Cera

Self-adhesive

- VITA ADIVA SELF-ADHESIVE
- RelyX Unicem 2 (3M ESPE)

Fully adhesive

- VITA ADIVA FULL-ADHESIVE
- VITA ADIVA IA-CEM, ultra opaque
- Multilink Automix (Ivoclar Vivadent)
- Panavia V5 (Kuraray)

Glass ionomers

- Ketac CEM (3M ESPE)
- Vivaglass CEM (Ivoclar Vivadent)
- GC Fuji I (GC Dental)

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Indication	VITA YZ® MULTI TRANSLUCENT	VITA YZ® XT Extra Translucent	VITA YZ® ST Super Translucent	VITA YZ® HT High Translucent
	●	●	●	○
	●	●	●	○
	●	●	●	○
	●	●	●	○
	●	×	●	○
	●	●	●	○
	●	●	●	○
	●	×	●	○
	●	×	●	●
	○	○	○	●
	○	○	○	●
	○	×	○	●
	○	○	○	●
	○	○	○	●
	○	×	○	●

● recommended ○ possible × not possible

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	VITA YZ® MULTI TRANSLUCENT	VITA YZ® XT ^{Multicolor}	VITA YZ® ST ^{Multicolor}
Bending strength Translucency Yttrium content	cervical: 1200 MPa, incisal: 850 MPa cervical: 46%, incisal: 50% cervical: 4Y-TZP, incisal: 5Y-TZP	850 MPa 50 % 5Y-TZP	1200 MPa 46% 4Y-TZP
Speed sintering	54 minutes	-	in less than 60 min.
Geometries	Ø 98.4 mm	Ø 98.4 mm	Ø 98.4 mm
Heights	14, 18, 22, 25, 30 mm New	14, 18, 22 mm	14, 18, 22, 25 mm
Stains	All VITA classical A1-D4 shades, three Bleach shades (0M1, 0M2, 0M3)	A1, A2, A3, A3.5, B2, C2, D2	All VITA classical A1-D4 shades, VITA SYSTEM 3D-MASTER shades: 0M1, 0M2, 0M3, 1M1, 1M2, 2M1, 2M2, 3M1, 3M2, 4M1, 4M2
Esthetic level	*****	****	****
Range of indications	*****	**	****
Technology	Multi-gradient technology**	Shade-gradient technology***	Shade-gradient technology***

* Detailed information on the Zirconia Color Portfolio can be found in brochure 10829 or on our website.

** Continuously harmonious shade transitions and natural translucency gradient from the neck to the highly translucent incisal area.

*** Seamless shade transitions, from the neck to the translucent incisal area.

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To ensure clinical success of restorations made from VITA YZ XT, the following minimum layer thicknesses must be adhered to:

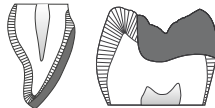
Anterior / posterior crowns (fully anatomical or substructure)

Incisal:	0.8 mm
Occlusal:	0.8 mm
Circumferential:	0.7 mm



Inlays / Onlays / Veneers

Incisal:	0.8 mm
Occlusal:	0.8 mm
Circumferential:	0.7 mm



Fully anatomical anterior bridges and substructures with one pontic

Incisal:	1.0 mm
Circumferential:	0.8 mm
Connector cross-sections:	9.0 mm ²



Fully anatomical posterior bridges and substructures with one pontic

Occlusal:	1.2 mm
Circumferential:	1.0 mm
Connector cross-sections:	12.0 mm ²



Overview	Benefits	Workflow	Recommended indications	Gradient portfolio	Preparation guidelines VITA YZ XT	Preparation guidelines VITA YZ MULTI TRANSLUCENT/ST	Preparation guidelines VITA YZ HT	Polishing	Self-adhesive bonding	References
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To ensure the clinical success of restorations made from VITA YZ MULTI TRANSLUCENT und VITA YZ ST, the following minimum layer thicknesses must be observed:

Anterior / posterior crowns (fully anatomical or substructure)

Incisal:	0.6 mm
Occlusal:	0.6 mm
Circumferential:	0.5 mm



Fully anatomical anterior bridges and substructures with one pontic

Incisal:	0.6 mm
Circumferential:	0.6 mm
Connector cross-sections:	9.0 mm ²



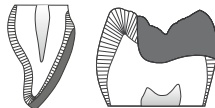
Fully anatomical anterior bridges and substructures with two pontics

Incisal:	0.8 mm
Circumferential:	0.6 mm
Connector cross-sections:	12.0 mm ²



Inlays / Onlays / Veneers

Incisal:	0.6 mm
Occlusal:	0.6 mm
Circumferential:	0.5 mm



Fully anatomical posterior bridges and substructures with one pontic

Occlusal:	0.7 mm
Circumferential:	0.6 mm
Connector cross-sections:	12.0 mm ²



Fully anatomical posterior bridges and substructures with two pontics

Occlusal:	0.8 mm
Circumferential:	0.6 mm
Connector cross-sections:	15.0 mm ²



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To ensure clinical success of restorations made from VITA YZ HT, the following minimum layer thicknesses must be observed:

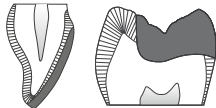
Anterior / posterior crowns (fully anatomical or substructure)

Incisal:	0.5 mm
Occlusal:	0.5 mm
Circumferential:	0.4 mm



Inlays / Onlays / Veneers

Incisal:	0.5 mm
Occlusal:	0.5 mm
Circumferential:	0.4 mm



Fully anatomical anterior bridges and substructures with one pontic

Incisal:	0.5 mm
Circumferential:	0.5 mm
Connector cross-sections:	7.0 mm ²



Fully anatomical posterior bridges and substructures with one pontic

Occlusal:	0.6 mm
Circumferential:	0.5 mm
Connector cross-sections:	9.0 mm ²



Fully anatomical anterior bridges and substructures with two pontics

Incisal:	0.6 mm
Circumferential:	0.5 mm
Connector cross-sections:	9.0 mm ²



Fully anatomical posterior bridges and substructures with two pontics

Occlusal:	0.7 mm
Circumferential:	0.6 mm
Connector cross-sections:	12.0 mm ²



Overview	Benefits	Workflow	Recommended indications	Gradient portfolio	Preparation guidelines VITA YZ XT	Preparation guidelines VITA YZ MULTI TRANSLUCENT/ST	Preparation guidelines VITA YZ HT	Polishing	Self-adhesive bonding	References
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The polishing of the occlusal surface, especially the areas that are in direct contact with the antagonist, is particularly important in monolithic restorations.



Preparation

- Grind zirconia wet

Prepolishing

Speed:
7,000 - 12,000 rpm

diamond-coated
polishing instruments,
pink

High luster finish

Speed:
4,000 - 8,000 rpm

diamond-coated
polishing instruments,
grey

Final high-gloss polishing

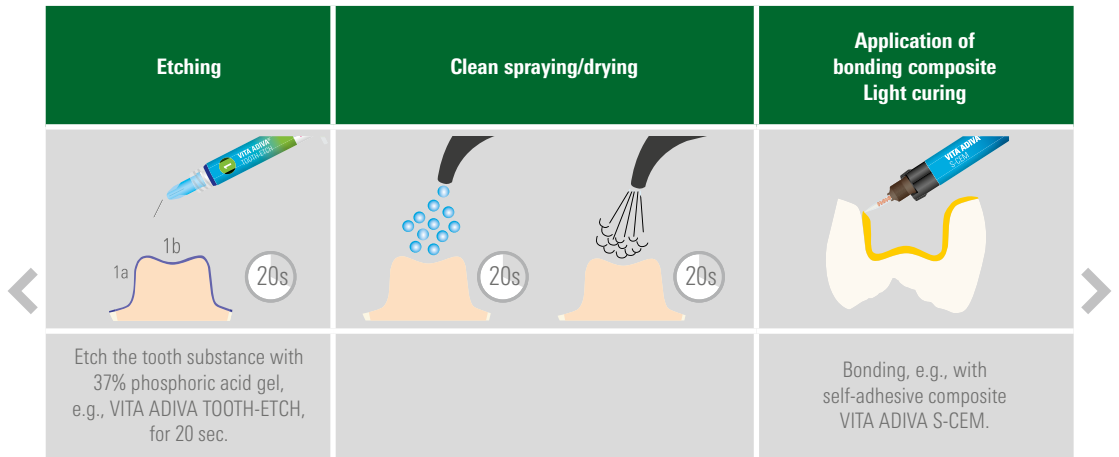
Speed:
5,000 - 10,000 rpm

Dry cotton buff.
Note: Maintain the recommended speed and work with moderate contact pressure to avoid excessive heat development

VITA Polish Cera:

Apply polishing paste using a soft goat hair or bison polishing brush. It is very suitable in conjunction with the polishing instruments of the VITA CERAMICS Polishing Sets clinical and technical.

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*Self-adhesive bonding is the standard method for zirconia.

Full-adhesive bonding is also possible according to your personal preference.

More information on bonding of VITA YZ restorations can be found at www.vita-zahnfabrik.com/adiva

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