

VITA YZ® ST Multicolor

Workflow



Polychromatic (gradient) for staining/glazing



VITA YZ ST (Super Translucent)
Full contour / partially veneered
Super translucent = 45%
1200+ MPa (4Y)

Shades:
VITA classical: A1, A2, A3, A3.5, B1, B2, C1, C2, D2
VITA 3D-MASTER: 0M1, 1M1, 2M1, 3M1, 4M1

Sizes Ø 98.4 mm: 14, 18, 22 mm

Characterization:
Full Contour
Micro / Partial Veneering
Staining / Glazing

Reworking of restorations



Sintering



Place anterior crowns on the labial surface.

Place restorations on the occlusal surface.

Place restoration on the incisal edges and always support the bridge units, pressing in slightly.

Press restorations with occlusal surfaces slightly into the pearl bed.

Place bridges vertically, directly on the firing base.

High-gloss polishing



The pre-polishing of ground areas is done with the pink rubber polishers containing diamonds of the VITA SUPRINITY Polishing Set technical/clinical at a speed of 7,000 to 12,000 rpm.

High-gloss polishing is then carried out with the diamond-coated, gray rubber polishers at a reduced speed of 4,000 to 8,000 rpm.

Staining technique (characterization + glazing, 2-fold)



For better surface wettability, a separate application of GLAZE LT Spray is recommended.

To avoid fitting problems, free the inside of the crown from glaze materials.

Characterization with VITA AKZENT Plus EFFECT STAINS in the second application of glaze.

Final restoration

PROCESS STEPS IN THE DENTAL LABORATORY

Indication overview

VITA YZ ST is approved for:

- fully-anatomical crowns and up to 14-unit bridges in the anterior and posterior tooth regions,
- fully and partially veneered single-tooth and up to 14-unit bridge substructures in the anterior and posterior tooth regions,
- single tooth restorations and up to 14-unit bridges on directly screwed implant abutments in the anterior and posterior tooth regions,
- inlays, onlays, veneers, partial crowns, occlusal veneers (Table Top).

Please note:

- Restorations made of VITA YT ST and VITA YZ XT may only be dry milled

Design parameters

All information refers to sintered restorations	Minimum wall thickness in mm	Connector cross-sections in mm ²
Inlay, onlay, veneer	incisal 0.6 occlusal 0.6 circumferential 0.5	–
Anterior and posterior crowns (fully anatomical or substructure)	incisal 0.6 occlusal 0.6 circumferential 0.5	–
Fully anatomical anterior bridges and substructures with one pontic	incisal 0.6 circumferential 0.6	9
Fully anatomical posterior bridges and substructures with one pontic	occlusal 0.7 circumferential 0.6	12
Fully anatomical multiunit anterior bridges and substructures with two pontics	incisal 0.8 circumferential 0.6	12
Fully anatomical multiunit posterior bridges and substructures with two pontics	occlusal 0.8 circumferential 0.6	15
Cantilever bridges with one extension	incisal 0.8 occlusal 0.8 circumferential 0.6	15

VITA YZ ST is limited in Canada, to bridges with six units.

Note:

- The minimum wall thicknesses refer to fully sintered restorations.
- The cantilever bridge unit should be modeled approximately one-third narrower in its mesiodistal dimension.
- Bridges with eight or more units are not separated from the sintering support prior to sintering.

Sintering parameters for VITA YZ ST

Programs	%	T0 °C	min.	°C/min.	T1 °C	min.	°C	%
YZ ST Universal	100	25	188:08	8	1530	120:00	200	100
YZ ST Speed	Restorations of up to three units can be sintered in the VITA ZYRCOMAT 6000 MS/6100 MS in speed mode in less than 60 minutes.							

Please note:

- The sintering results are influenced by various parameters such as model, performance and age of the sintering unit used. Detailed information on processing and sintering procedure can be found in the document **Instructions for Use | full version**.

Stain firing

Stains fixation firing with VITA AKZENT Plus STAINS								
Programs	Predry. °C	→ min.	↗ min.	↗ °C/min.	T °C	→ min.	Vac. min.	↗ °C
Stains fixation firing	500	4:00	3:15	80	760	1:00	–	–

Glaze firing with VITA AKZENT Plus GLAZE LT/FLUOGLAZE LT								
Programs	Predry. °C	→ min.	↗ min.	↗ °C/min.	T °C	→ min.	Vac. min.	↗ °C
GLAZE LT Powder/Spray	400	4:00	5:36	80	850	1:00	–	–
FLUOGLAZE LT Spray	400	4:00	5:36	80	850	1:00	–	–
GLAZE LT Paste	400	6:00	5:36	80	850	1:00	–	–

Finalization using characterization/glazing



1 Sintered restoration.



2 High-gloss polishing of the areas in direct contact with the antagonist.



3 For better surface wettability, a separate application of GLAZE LT Spray is recommended.



4 To avoid fitting problems, free the inside of the crown from glaze materials.



5 Restoration after the first glaze firing.



6 Characterization with VITA AKZENT Plus EFFECT STAINS in the second application of glaze.



7 Final restoration from the buccal view.



8 Final restoration from the oral view.

Note:

Glaze firing with glazing materials

- The glaze firing can be done with either powder, pastes or spray materials.
- VITA AKZENT Plus FLUOGLAZE LT Spray is available for increasing fluorescence.
- Approximal contacts that are too weak or missing can be filled with VITA AKZENT Plus FINISHING AGENT.
- Glaze material on the inner surface of the restoration must be removed with a brush BEFORE firing.

Contraindication

Contraindication
<ul style="list-style-type: none"> ○ in cases of more than two contiguous bridge units ○ in cases of two or more cantilever bridge units ○ in cases of parafunctions for veneered restorations, especially for "crunchers" and "pressers" ○ in cases of insufficient oral hygiene ○ in cases of insufficient preparation results ○ in cases of insufficient hard tooth substance ○ in cases of patients who have allergies or sensitivities to the contents ○ provisional integration of veneered restorations ○ conventional or self-adhesive insertion of inlays, onlays, veneers, partial crowns and occlusal veneers (Table Top)

Note:

Storage/disposal

Store the VITA YZ discs and blocks in the original packaging and in a dry place. The products labelled with a pictogram for hazardous substances are to be disposed of as hazardous waste. Recyclable waste (such as attachments, paper and plastics) must be disposed of using appropriate recycling systems. If necessary, contaminated product residues should be pretreated in accordance with regional regulations and disposed of separately.

Technical/physical data

Property	Unit	Material
Coefficient of thermal expansion (20 - 500 °C)	10 ⁻⁶ K ⁻¹	approx. 10.3
Chemical solubility (ISO 6872)	µg/cm ²	< 20
Density after sinter firing	g/cm ³	approx. 6.05
3-point flexural strength (ISO 6872)	MPa	approx. 1,200
Sintering temperature	°C	1530
Type/class*	–	II / 5

Please note:

Disclaimer

Please note: Our products must be used in accordance with the instructions for use. We accept no liability for any damage resulting from incorrect handling or usage. The user is furthermore obliged to check the product before use with regard to its suitability for the intended area of applications. We cannot accept any liability if the product is used in conjunction with materials and equipment from other manufacturers that are not compatible or not authorized for use with our product and this results in damage. The VITA Modulbox is not necessarily a component of the product. Date of issue of these instructions for use: 2022-04

After the publication of this information for use, any previous versions become obsolete. The current version can be found at www.vita-zahnfabrik.com.

VITA Zahnfabrik has been certified and the following products bear the mark: VITA YZ® ST

CE 0124 Rx only MD

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Chemical composition

Component	Material
–	4Y-TZP
ZrO ₂	88 – 93
Y ₂ O ₃	6 – 8
HfO ₂	1 – 3
Al ₂ O ₃	0 – 1
Pigments	0 – 1

Safety note

- While work is in progress, wear suitable safety goggles/face protection
- Only perform work under an extraction unit
- Wear protective gloves

Information on bonding of VITA YZ restorations in the patient's mouth can be found at www.vita-zahnfabrik.com/advia

Product reliability

Information on reporting serious incidents in connection with medical devices, general risks associated with dental treatments, residual risks and (if applicable) short clinical safety and performance reports (SSCPs) can be found at www.vita-zahnfabrik.com/product_safety.

The safety data sheets can be downloaded at www.vita-zahnfabrik.com or requested by fax at (+49) 7761-562-233.

VITA – perfect match.

VITA