

Instructions for use



VITA LUMEX® AC

One for All Ceramics and more. Minimum effort – optimal results.





Veneering ceramics

VITA LUMEX® AC Versatile. Reliable. Efficient.

Dear Customers,

We are pleased that you have chosen VITA LUMEX AC.

With this product solution, you get an all-ceramic veneering system for veneering all commonly available ceramic substructure materials and for the fabrication of restorations without a substructure, such as veneers.

To use VITA LUMEX AC safely and efficiently at all times, please read this information fully before the first use.

We hope you enjoy VITA LUMEX AC and achieve great results!

Your VITA Product Management Team

Content overview

1	Material system / processes
2	Indication range of the ceramic materials 6
3	Preparation of the substructure
3.1	Ceramic
3.2	Titanium substructure

4 Standard full veneering

4.1 Example of layering pattern A2 for titanium substructures 12
4.2 Example of layering pattern A2 for ceramic substructures 14
4.3 Application of DENTIN
4.4 Application of ENAMEL, first dentine firing

5 Partial veneering after cut-back

5.1 Example of layering pattern	22
5.2 Washbake plus characterization	24

6 Individual full veneering

6.1 Layering pattern: example of young anterior tooth in A2 $\ldots \ldots \ldots$ 2	28
6.2 Individual veneering of young anterior tooth	30
6.3 Layering pattern: example of older anterior tooth in A3	32

7 Shade reproduction/firing

7.1 Overview of ceramic / stain firings	40
7.2 Shade reproduction according to VITA classical A1-A4	42
7.3 Shade reproduction according to VITA SYSTEM 3D-MASTER	44

8 Technical data/information

9	VITA System Solutions
8.5	ntended users
8.4	Patient target group
8.3	ntended purpose
8.2	Chemical composition
8.1	echnical / physical data

4.5 Shape correction, second dentine firing	7
4.6 Finishing of the restoration 18	3
4.7 Characterization/glazing of the restoration 20)

5.3 Aj	pplication o	of ENAME	L						 	 	 			 25
5.4 Cł	haracteriza	tion/glazir	ıg of	the	res	stor	ati	on	 	 	 			 26

6.4 Individual veneering of older anterior tooth	34
6.5 Layering pattern: example of old anterior tooth in A3.5	36
6.6 Individual veneering of old anterior tooth	38

8.6 Indications	49
8.7 Contraindications	49
8.8 Notes on layer thicknesses	49
8.9 Symbol explanations	50
8.10 Safety at work/health protection	50

1. Material system/processes



Efficient

VITA LUMEX AC is a leucite-reinforced, glass-ceramic veneering system. Maximum success with minimum effort.

Reliable

For veneering all common, all-ceramic substructure materials (zirconia, lithium disilicate and feldspar ceramics) and titanium substructures. For the production of restorations without a substructure (e.g., veneers).

Versatile

VITA LUMEX AC includes: GINGIVA, OPAQUE, OPAQUE DENTINE, DENTINE and ENAMEL materials, as well as a multitude of effect materials (e.g., OPAL TRANSLUCENT, FLUO IN-TENSE and many more).

Process steps in the practice and laboratory

Prosting	1. Shade determination								
FIGUICE	2. Preparation / impression taking								
	3. Substructure preparation	4. Wash application*							
	5. DENTINE Application	6. ENAMEL Application							
Dental Jahoratory									
Dental laboratory	Application of corrective material (optional)	7. Shape corrections							
	8. Characterization								
Duranti	9. Preparation for placement								
Practice	10. Bonding								

* This process is not necessary for lithium disilicate substructures, but can be performed as an option.

2. Indication range: ceramic materials

VITA LUMEX[®] AC materials overview

Basic materials





Effect / addition materials DENTIN

2. Indication range: ceramic materials

VITA LUMEX® AC materials overview

Effect / addition materials Enamel

MAMELON	For imitating mamelons in the incisal area		
Stains	saffron honey-melon		
TRANS-LUCENT	Universally applicable translucent enamel effect materials for the reproduction of shade effects in the incisal area		
Stains	smoky-white light-blonde deep-blue foggy-grey	misty-rose sunlight	sun-intense waterdrop
OPAL TRANS- LUCENT	For the reproduction of opal effects		
Stains	opal-neutral opal-sky	opal-azure	
PEARL	For the reproduction of mother-of-pearl effects		
Stains	shell		
CORREC- TIVE	For corrections after the glaze firing with a reduced firing temperature		
Stains	neutral desert		

3. Preparation of the substructure

3.1 Washbake for ceramic substructures



DENTINE, POWERWASH or FLUO INTENSE materials can be used for the washbake. The following applies:

The appearance of VITA LUMEX AC is matched to the pre-colored zirconia material VITA YZ ST with regard to full veneers.

In the case of partial veneers or micro veneering, the base tooth shade is determined by the substructure body (e.g., lithium disilicate, feldspar ceramic):

• A washbake is recommended for a good bond of VITA LUMEX AC to the ceramic substructure.

- Mix DENTINE or POWERWASH materials with VITA LUMEX AC MODELLING LIQUID to obtain a thin aqueous mixture.
- Use a brush to apply thinly, evenly and uniformly to the clean, dry substructure.

 For more fluorescence or opacity from the depths, other materials such as FLUO INTENSE or OPAQUE DENTINE can also be used as an alternative. In order to achieve the best possible result with full veneers on other substructure materials, full coverage application with the VITA LUMEX AC POWERWASH materials (approx. 0.2 mm) is recommended.

Substructure materials from other manufacturers may have different optical properties due to pre-coloring, which may require the use of additional effect materials.

- For the OPAQUE materials, use VITA OPAQUE FLUID (BOF50, BOF250), for the remaining ceramic materials use VITA LUMEX AC MODELLING LIQUID.
- Mix the MARGIN materials with VITA LUMEX AC Modelling Liquid. It is possible to use a hair dryer or radiated heat from the furnace to stabilize the shoulder.

Please note _____

This process is not necessary for lithium disilicate substructures, but can be performed as an option.

Firing:

Recommended firing - wash firing									
	Pre-dry °C	→ min.	→ °C/min.	Temp. approx. °C	→ min.	VAC			
Zirconia substructures	400	4.00	50	800	1.00	on			
lithium disilicate substructures	400	4.00	50	760	1.00	on			

3. Preparation of the substructure

3.2 Preparation of substructures made of titanium grades 1-5



1 Sandblasted substructure, ceramic-

supporting design with cooling fins



Passivation for five minutes is required (leave framework in place, without machining) Then clean the surface with a steam cleaner.



3 Substructure with OPAQUE

Please note _

- Crown and bridge frameworks as a reduced tooth shape with anatomical and ceramic-supporting framework design
- Recommended thickness of the substructure at least 0.4 0.5 mm; avoid sharp edges and overlapping
- Bridge connectors should have adequate dimensions in the interdental area
- Attach cooling fin to fully veneered bridge units
- Use only cutters suitable for titanium (low speed, approx. 15,000 rpm and reduced pressure). Grind in one direction only and avoid overlapping.
- Sandblast at an angle of 45° using high-grade corundum (120 150 $\mu m)$ at 2 bar and a distance of 3 5 cm
- Passivation for five minutes is required (leave framework in place, without machining)
- Cleaning the surface with a steam cleaner

- No oxide firing
- For shade classification of the OPAQUE materials, see pages 40 44
- Carry out opaque firings with OPAQUE:
 - First opaque firing should be applied thinly (like a washbake).
 - Subsequent opaque firings should completely cover the substructure.
- The use of a titanium bonder is not necessary, but possible.* For improved wetting of the titanium surface, approx. 50% VITA AKZENT PLUS GLAZE LT can optionally be mixed with the OPAQUE. VITA OPAQUE FLUID (BOF50, BOF250) must be used for mixing OPAQUE.

Firing - opaque firing with OPAQUE:

Recommended firing for OPAQUE on titanium frameworks								
Pre-dry °C	Pre-dry °C \longrightarrow min. \checkmark °C/min.Temp. approx. °C \longrightarrow min.°C \searrow \longrightarrow min.VAC							
400	4.00	50	800	1.00	_	_	on	

*) For products that are not manufactured or approved by VITA Zahnfabrik H.Rauter GmbH & Co. KG, no warranty can be given if they are used; the manufacturer's instructions must be observed.



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4.1 Example of layering pattern A2 for titanium substructures



- For more intense chroma, it is recommended to add 10 - 20 % DENTINE MODIFIER to OPAQUE DENTINE (see graphic for shade classification).
- To increase the lightness level in the incisal area, TRANSLUCENT smoky-white can be mixed with the ENAMEL materials.







4.2 Example of layering pattern A2 for ceramic substructures



- Generally, standard full veneering is done with DENTINE and ENAMEL materials. However, OPAQUE DENTINE materials can also be used as an option.
- In the following cases, the additional use of OPAQUE DENTINE materials is recommended:
- To avoid loss in color of the pontics, in particular in the area of the gingiva.
- To reproduce areas with intense shades, such as occlusal surfaces of molars.
- To enhance the shade effect, especially in cases of limited space (< 0.8 mm).

Please note _

- The relationship of the layer thicknesses of DENTINE and ENAMEL can impact the shade intensity of the restoration. Shade intensive results are achieved with thicker layers of OPAQUE DENTINE and DENTINE materials – the thicker the layer of ENAMEL, the more pallid the end result.
- ENAMEL light is intended to achieve a translucent effect of the incisal edge. If a higher opacity is desired, TRANSLUCENT light-blonde, for example, can be used for lighter tooth shades, and TRANSLUCENT smoky-white for bleach shades.



4.3 Application of DENTINE



- For easier removal of the restoration, insulate the model beforehand with VITA Modisol.
- To avoid differences in the shade of abutment crowns and pontics, OPAQUE DENTINE materials are applied to the basal surface and the cervical area of the pontic.
- In cases of insufficient space relationships (just at the cuspids), apply a thin layer of OPAQUE DENTINE before applying the dentine and enamel. This guarantees a precise reproduction of shade, especially in cases of layer thicknesses of less than 0.8 mm.
- For a good orientation with regard to size, shape and position of the teeth, apply the DENTINE fully anatomically.

4.4 Application of ENAMEL: first dentine firing



- For an optimal enamel application, reduce the dentine in the upper third.
- For a uniform level of moisture, the material should be carefully wetted with a brush in the interproximal areas from the palatal side before the enamel material is applied.
- To complete the crown shape, ENAMEL is applied in several small quantities.
- To compensate for firing shrinkage, the size of the mould should be prepared somewhat larger.
- Using a slightly moist separating knife, the individual bridge units are separated in the interproximal area down to the substructure, prior to the first dentine firing.

- After removing the bridge from the model, complete the contact points with DENTINE and ENAMEL.
- Finally, the bridge is placed on a firing tray for the subsequent firing process.
- ENAMEL light is intended to achieve a translucent effect of the incisal edge. If a higher opacity is desired, TRANSLUCENT light-blonde, for example, can be used for lighter tooth shades, and TRANSLUCENT smoky-white for bleached shades.

Firing:

Recommended firing first dentine firing*							
Pre-dry °C	→ min.	°C/min.	Temp. approx. °C	→ min.	VAC		
400	6.00	50	760	1.00	on		

* Applies for both zirconia and lithium disilicate substructures.

4.5 Shape correction: second dentine firing



- Insulate with VITA Modisol again before placing on the model. This way, any material applied in the basal area will not stick to the model.
- Make corrections of the shape starting from the cervical area with OPAQUE DENTINE / DENTINE and ENAMEL.

Firing:

Recommended firing 2. dentine firing*							
Pre-dry °C → min. ✓ °C/min. Temp. approx. °C → min. VAC							
400	6.00	50	755	1.00	on		

* Applies for both zirconia and lithium disilicate substructures.

4.6 Finishing of the restoration



- After firing, place on the model and grind the contact points.
- Use a diamond tool for smaller shape corrections; separate the approximal spaces carefully using a diamond disc. Make sure not to damage the substructure.
- Then incorporate natural surface structures (e.g., growth grooves or convex / concave surfaces).

Please note _____

Before the glaze / stain firing, clean the restoration thoroughly of grinding dust with a toothbrush under running water or with a steam jet.



4.7 Characterization/glazing of the restoration



- Glaze the entire restoration with VITA AKZENT PLUS GLAZE LT as needed.
- To intensify the shade in the cervical area, for example, apply VITA AKZENT Plus CHROMA STAINS.
- For the reproduction of individual shade characteristics, for example, apply VITA AKZENT Plus EFFECT STAINS.

Firing:

Recommended firing - glaze firing with VITA AKZENT® Plus Glaze LT Powder*								
Pre-dry °C	→ min.	→ °C/min.	Temp. approx. °C	→ min.	VAC			
400	4.00	80	750	1.00	_			

*) Applies for both zirconia and glass ceramic substructures.

5. Partial veneering after cut-back

5.1 Example of layering pattern



The dentine shade is formed by the cut-back substructure; the individual incisal characterization is done with ENAMEL and TRANSLUCENT ceramic materials.

Please note _

When reducing the substructure in the incisal area, the manufacturer's specifications on minimum wall thickness must be observed!



5. Partial veneering after cut-back

5.2 Washbake plus characterization



Anatomically reduced restoration.



4 Then glaze / characterize the restoration.



2 Application of wash material ...



- 5 Result after the firing.
- Use ENAMEL for the washbake; in cases of thin layers, VITA AKZENT PLUS GLAZE LT is also possible as an alternative for the washbake.
- To intensify the shade in the cervical area, for example, apply VITA AKZENT Plus CHROMA STAINS.
- For the reproduction of individual shade characteristics, for example, apply VITA AKZENT Plus EFFECT STAINS.

Please note .

This process is not necessary for lithium disilicate substructures, but can be performed as an option.

3 ... Step 2.

Recommended firing for zirconia substructures							
Pre-dry °C min. ~ °C/min. Temp. approx. °C min. VAC							
400	4.00	50	800	1.00	on		

Recommended firing for glass ceramic							
Pre-dry °C → min. → °C/min. Temp. approx. °C → min. VAC							
400	4.00	50	760	1.00	on		

Firing:

5.3 Application of ENAMEL





1 Completed application of ENAMEL.

2 Restoration after finishing.

Apply several small portions of ENAMEL to complete the crown mould, beginning from the middle third of the crown. To compensate for firing shrinkage, the size of the mould should be prepared somewhat larger.



Learn more in Tutorial Videos now:



Firing:

Recommended firing first dentine firing*							
Pre-dry °C	→ min.	✓ °C/min.	Temp. approx. °C	→ min.	VAC		
400	6.00	50	760	1.00	on		

*) Applies for both zirconia and glass ceramic substructures.



5. Partial veneering after cut-back

5.4 Characterization / glazing of the restoration



- Glaze the entire restoration with VITA AKZENT PLUS GLAZE LT as needed.
- To intensify the shade in the cervical area, for example, apply VITA AKZENT Plus CHROMA STAINS.
- For the reproduction of individual shade characteristics, for example, apply VITA AKZENT Plus EFFECT STAINS.

Please note

The use of glazing materials is optional; see Firing -Glaze Firing, chapter "Shade reproduction / firing."

Firing:

Recommended firing - glaze firing with VITA AKZENT® Plus Glaze LT Powder*							
Pre-dry °C	→ min.	→ °C/min.	Temp. approx. °C	→ min.	VAC		
400	4.00	80	750	1.00	_		

*) Applies for both zirconia and glass ceramic substructures.

6. Individual full veneering

6.1 Layering pattern: example of young anterior tooth in A2



28 VITA LUMEX AC



6. Individual full veneering

6.2 Individual veneering: young anterior tooth





3 Result after OPAQUE DENTINE application.



6 Result after cut-back.



9 Apply ENAMEL.





12 Restoration after finishing.

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- In the present example, the cervical area was intensified with VITA AKZENT Plus and also dusted with FLUO INTENSE materials.
- The advantage of dusting the surfaces with FLUO INTENSE is that it provides a porous surface, where the light penetrating the restoration breaks down naturally.

Firing:

Recommended firing first dentine firing*							
Pre-dry °C	→ min.	→ °C/min.	Temp. approx. °C	→ min.	VAC		
400	6.00	50	760	1.00	on		

*) Applies for both zirconia and glass ceramic substructures.

Recommended firing - glaze firing with VITA AKZENT® Plus Glaze LT Powder*							
Pre-dry °C	→ min.	≁ °C/min.	Temp. approx. °C	→ min.	VAC		
400	4.00	80	750	1.00	_		

*) Applies for both zirconia and glass ceramic substructures.



with VITA AKZENT Plus.



Learn more in Tutorial Videos now:



6. Individual full veneering

6.3 Layering pattern: example of older anterior tooth in A3





34 VITA LUMEX AC

6. Individual full veneering

6.4 Individual veneering of older anterior tooth





2 Result after washbake.



5 Perform cut-back.



3 Apply OPAQUE DENTINE.



6 Apply effect materials ...



9 Result after the firing.

Firing procedure: For information on the dentine and glaze firings, see 6.2.

Learn more in Tutorial Videos now:



6. Individual full veneering

6.5 Layering patterns: example of old anterior tooth in A3.5







Learn more in Tutorial Videos now:

6. Individual full veneering

6.6 Individual veneering of old anterior tooth



7. Shade reproduction/firing

7.1 Overview of ceramic / stain firings

Firing parameters									
Programs	Pre-dry °C	→ min.	∽ °C/min.	Temp. ap- prox. °C	→ min.	∽ ~ °C	→ min.	VAC	
Cleaning firing YZ-T	500	03:00	33	700	05:00	_	_	_	
Cleaning firing YZ-HT	290	10:00	10	600	05:00	_	_	_	
Washbake with zirconia (e.g., with POWERWASH)	400	04:00	50	800	01:00	_	_	on	
Washbake - lithium disilicate	400	04:00	50	760	01:00	_	_	on	
Opaque firing with OPAQUE (on ZrO ₂ + titanium)	400	04:00	50	800	01:00	_	_	on	
Shoulder firing with MARGIN (on ZrO ₂ + titanium)	400	06:00	50	770	01:00	_	_	on	
First dentine firing	400	06:00	50	760	01:00	500*	_	on	
Second dentine firing	400	06:00	50	755	01:00	500*	_	on	
Glaze firing	400	00:00	80	750	01:00	500*	_	_	
Stains fixation firing with VITA AKZENT Plus	400	04:00	80	700	01:00	500*	_	_	
Glaze firing with VITA AKZENT Plus GLAZE LT Powder	400	04:00	50	750	01:00	500*	_	_	
Glaze firing with VITA AKZENT Plus GLAZE LT Paste	400	08:00	50	750	01:00	500*	_	_	
Glaze firing with VITA AKZENT Plus FLUOGLAZE LT Spray	400	06:00	50	750	01:00	500*	_	_	
Corrective firing with CORRECTIVE	400	04:00	50	725	01:00	500*	_	on	

* Long-term cooling down to the corresponding temperature is recommended for the respective last planned firing cycle of the veneering ceramic. The lift position for VITA VACUMAT furnaces should be > 75%. The items to be fired must be protected from a direct supply of air. Based on the poor thermal conductivity of both materials (Y-TZP and veneering ceramic), higher residual stress can occur in this compound system than is known to typically occur in metal ceramics. This residual thermal stress in the veneering ceramic can be counteracted by means of slow cooling in the final firing process, to below the transformation temperature of the veneering ceramic during the last firing cycle (approx. 550° C for VITA LUMEX AC).



Please note

- The user should consider this information only as a reference. If the surface quality or the degree of transparency or glaze does not correspond to the firing result that is achieved under optimum conditions, the firing procedure must be adjusted accordingly.
- The critical factors for the firing procedure are not the firing temperature indicated on the furnace display, but rather the appearance and the surface quality of the firing object after firing.
- Low-fusing ceramics are generally more sensitive to residual moisture during the firing process. Too much residual moisture after pre-drying can, for example, influence the shade effect of the final restoration. Depending on the size of the restoration and the individual workflow, extending the preheating time may lead to an improved firing result.
- To achieve an optimum firing result on multi-unit bridge substructures (especially with voluminous pontics), an extension of the heating time is recommended.

Explanation of Symbols									
Pre-dry °C	→ min.	≁ °C/min.	Temp. approx. °C	→ min.	℃	→ min.	VAC		
Start temperature	Pre-drying time in minutes, closing time	Heating time in minutes, temperature rise rate in degrees Celsius per minute	Final temperature	Holding time for end temperature	Long-term cooling	Hold time for long-term cooling	Vacuum holding time in minutes		

7. Shade reproduction/firing

7.2 Shade reproduction according to VITA classical A1–D4

	OPAQUE	POWER WASH	OPAQUE DENTINE	DENTINE	ENAM	MEL**	FLUO INTENSE	DENTINE MODIFIER
A1	opaque-1	A1	A1	A1	light			
A2	opaque-2	A2	A2	A2	light			
A3	opaque-2	A3	A3	A3	light			
A3.5	opaque-3	A3.5	A3.5	A3.5	medium			
Α4	opaque-3	A4	A4	A4	medium			
B1	opaque-1	B1	B1	B1	medium			
B2	opaque-1	B2	B2	B2	medium		arctic-white	cloudy- white
B3	opaque-3	B3	B3	B3	medium	intense	cream	caramel
B4	opaque-3	Β4	Β4	Β4	medium	fog	sand	copper
C1	opaque-3	C1	C1	C1	medium		sesame	brown
C2	opaque-2	C2	C2	C2	medium			
C3	opaque-3	C3	C3	C3	light			
C4	opaque-4	C4	C4	C4	light	V	•	V
D2	opaque-2	D2	D2	D2	medium			
D3	opaque-3	D3	D3	D3	medium			
D4	opaque-3	D4	D4	D4	medium			

Note: The material classifications are only intended to provide reference values!



* Mixing ratio 1:1

** ENAMEL light is intended to achieve a translucent effect of the incisal edge. If a higher opacity is desired, TRANSLUCENT light-blonde, for example, can be used for lighter tooth shades, and TRANSLUCENT smoky-white for bleach shades.

7. Shade reproduction/firing

7.3 Shade reproduction according to VITA SYSTEM 3D-MASTER

	OPAQUE	POWER WASH	OPAQUE DENTINE	DENTINE	ENAM	MEL**	FLUO	DENTINE MODIFIER
0M1	opaque-0		0M1	0M1	light			
0M2	opaque-0	LLO	0M2	0M2	light			
0M3	opaque-0		0M3	0M3	light			
1M1	opaque-1	LL1	1M1	1M1	light			
1M2	opaque-1		1M2	1M2	light			
2L1.5	opaque-2		2L1.5	2L1.5	light			
2L2.5	opaque-2		2L2.5	2L2.5	light		arctic-white	cloudy- white
2M1	opaque-2		2M1	2M1	light	clear	cream	caramel
2M2	opaque-2	LL2	2M2	2M2	light	fog	sand	copper
2M3	opaque-2		2M3	2M3	light		sesame	brown
2R1.5	opaque-2		2R1.5	2R1.5	light			
2R2.5	opaque-2		2R2.5	2R2.5	light	-		
3L1.5	opaque-3		3L1.5	3L1.5	medium		V	V
3L2.5	opaque-3	LL3	3L2.5	3L2.5	medium			
3M1	opaque-3		3M1	3M1	light			
3M2	opaque-3		3M2	3M2	light			

Note: The material classifications are only intended to provide reference values!

CHROMA INTENSE	MARGIN	MAMELON	TRANS- LUCENT	OPAL TRANS- LUCENT	PEARL	GINGIVA	CORREC- TIVE
			smakv-white			nale-nanilla	
ivory almond hazelnut	straw-yellow corn-yellow	saffron honey-melon	smoky-white light-blonde misty-rose sunlight sun-intense deep-blue waterdrop foggy-grey	opal-neutral opal-sky opal-azure	shell	 pale-papilla light-rose nectarine grapefruit rosewood purple deep-red dark-red 	neutral desert

* Mixing ratio 1:1
 ** ENAMEL light is intended to achieve a translucent effect of the incisal edge. If a higher opacity is desired, TRANSLUCENT light-blonde, for example, can be used for lighter tooth shades, and TRANSLUCENT smoky-white for bleach shades.

7. Shade reproduction/firing

7.3 Shade reproduction according to VITA SYSTEM 3D-MASTER

	OPAQUE	POWER WASH	OPAQUE DENTINE	DENTINE	ENAM	MEL**	FLUO INTENSE	DENTINE MODIFIER
3M3	opaque-3		3M3	3M3	light			
3R1.5	opaque-3	LL3	3R1.5	3R1.5	light			
3R2.5	opaque-3		3R2.5	3R2.5	medium			
4L1.5	opaque-4		4L1.5	4L1.5	light			
4L2.5	opaque-4		4L2.5	4L2.5	light			
4M1	opaque-4		4M1	4M1	light		arctic-white	cloudy- white
4M2	opaque-4	LL4	4M2	4M2	intense	clear fog	cappuccino*	honey
4M3	opaque-4		4M3	4M3	intense		sand sesame	copper
4R1.5	opaque-4		4R1.5	4R1.5	light			
4R2.5	opaque-4		4R2.5	4R2.5	intense			
5M1	opaque-5		5M1	5M1	light			
5M2	opaque-5	LL5	5M2	5M2	intense	▼	•	•
5M3	opaque-5		5M3	5M3	intense			

Note: The material classifications are only intended to provide reference values!



* Mixing ratio 1:1

** ENAMEL light is intended to achieve a translucent effect of the incisal edge. If a higher opacity is desired, TRANSLUCENT light-blonde, for example, can be used for lighter tooth shades, and TRANSLUCENT smoky-white for bleached shades.

8. Technical data/information

8.1 Technical / physical data

VITA LUMEX® AC						
Physical properties	Unit of measure	Value				
CTE (25-400 °C)	10 ⁻⁶ K ⁻¹	approx. 8.8				
Solubility in acids	µg/cm²	approx. 10				
3-point flexural strength	MPa	approx. 100				

8.2 Chemical composition

VITA LUMEX® AC	Wt%
SiO2	60-75
Al203	3-10
K20	5-12
Na20	4-11
B2O3	5–12
CaO	< 3
Li2O	< 3
Pigments	< 10

- The technical/physical values given are typical measurement results and refer to in-house manufactured samples and measuring instruments in the company.
- If samples are prepared using different methods and measurement equipment, other measuring results may be obtained.





8. Technical data/information

8.3 Intended purpose

VITA LUMEX AC products are ceramic materials for dental treatments.

8.5 Intended users

Dental professionals only: dentist and dental technician (Rx only).

8.6 Indications

Indications:

- Full and partial veneering made from zirconia
- Full and partial veneering made from lithium disilicate
- Partial veneering made from feldspar ceramics
- Reconstruction without substructure
- Full and partial veneering made from titanium grade 1 5

8.7 Notes on contraindications

- Substructures with unsuitable CTE values and material properties.
- Patients with allergies or sensitivities to the ingredients.
- Insufficient space available.

8.4 Patient target group

No restrictions

Materials:

- Zirconia substructures (CTE approx. 10.0 to 10.5 x 10⁻⁶ K⁻¹)
- Glass ceramic substructures (CTE approx. 9.0 bis 10.5 x 10⁻⁶ K⁻¹)
- Titanium substructures (CTE approx. 9.0 to 10.5 x 10⁻⁶ K⁻¹)

Please note

The veneering ceramic VITA VM 11 must be used for the product VITA SUPRINITY PC (zirconia reinforced lithium silicate ceramic).

8.8 Notes on layering patterns

- When preparing a ceramic veneer, a uniform layer thickness across the entire surface to be veneered must be ensured.
- The entire thickness of the ceramic layer, however, should not exceed 2 mm (the optimal layer thickness ranges from 0.7 to 1.2 mm).

8. Technical data/information

8.9 Symbol explanations

Manufacturer VITA Zahnfabrik		Manufacturing date	
Medical device	MD	Shelf life	\square
For professionals only	Rx only	Product number	REF
Refer to instructions for use		Lot number (batch)	LOT
Recycling symbol	PAP PAP		

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 safety¹).

The corresponding safety data sheets can be downloaded at **www.vita-zahnfabrik.com/SDS**²¹

Products labeled with a hazardous substances pictogram must be disposed of as hazardous waste. Recyclable waste (e.g., accessories, 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.





8.10 Safety at work/health protection

Safety at work and health protection

When work is in progress, wear suitable safety goggles/ face protection, gloves and safety clothing.





Suitable solutions for processes.

Shade determination

VITA Easyshade V/VITA Easyshade LITE or VITA Shade Guides

Framework completion

VITA YZ ZIRCONIA, VITABLOCS feldspar ceramic or VITA AMBRIA lithium silicate ceramic

Veneering

VITA LUMEX AC









Firing VITA VACUMAT 6000 M

Polishing

VITA AKZENT Plus Stains and Glaze Materials

Characterization





VITA CERAMICS Polishing Set

We are happy to help.

Hotline Sales Support

Telephone +49 7761 562-884 Fax +49 7761 562-299 8 a.m. to 5 p.m. CET info@vita-zahnfabrik.com

Technical Hotline

Telephone +49 7761 562-222 Fax +49 7761 562-446 8 a.m. to 5 p.m. CET info@vita-zahnfabrik.com

Please note:

Our products must be used according to the instructions for use. We cannot be held liable for damages 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 application. 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 Module Box is not a necessary part of the product. Publication of this product brochure:2024-03

On publication of these instructions for use, previous versions will no longer be valid. The current version in each case is available at www.vita-zahnfabrik.com

VITA Zahnfabrik is certified, and the following products

bear the mark **CE**0124: **VITA LUMEX**® AC, **VITA AKZENT**® Plus

The products/systems of other manufacturers mentioned in this document are registered trademarks of the respective manufacturers.

Rx Only

MD



Additional information on VITA LUMEX AC www.vita-zahnfabrik.com/lumex



Internal studies, VITA R&D:

VITA Zahnfabrik H. Rauter GmbH & Co. KG Research and Development Division Spitalgasse 3, 79713 Bad Säckingen, Germany Dr. Berit Gödiker, project manager for VITA R&D, VITA Zahnfabrik, Bad Säckingen

Detailed test data

See Technical and scientific documentation VITA LUMEX AC Download from www.vita-zahnfabrik.com



VITA Zahnfabrik H. Rauter GmbH & Co.KG, Bad Säckingen (Germany) Zweigniederlassung Basel c/o Perrig AG, Max Kampf-Platz 1, 4058 Basel



VITA LUMEX® AC

WITA Zahnfabrik H. Rauter GmbH & Co. KG

Spitalgasse 3 79713 Bad Säckingen Germany

Phone: +49 7761 562-0 Hotline: +49 7761 562-222 info@vita-zahnfabrik.com www.vita-zahnfabrik.com Follow us on social media!

