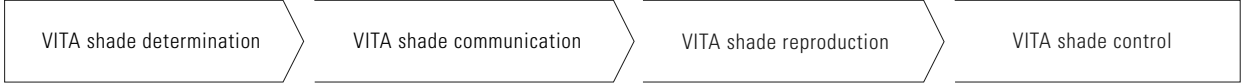


# VITA LUMEX® AC

Ideal shade fidelity. Excellent light dynamics. Precise processing.



Date of issue: 11.19



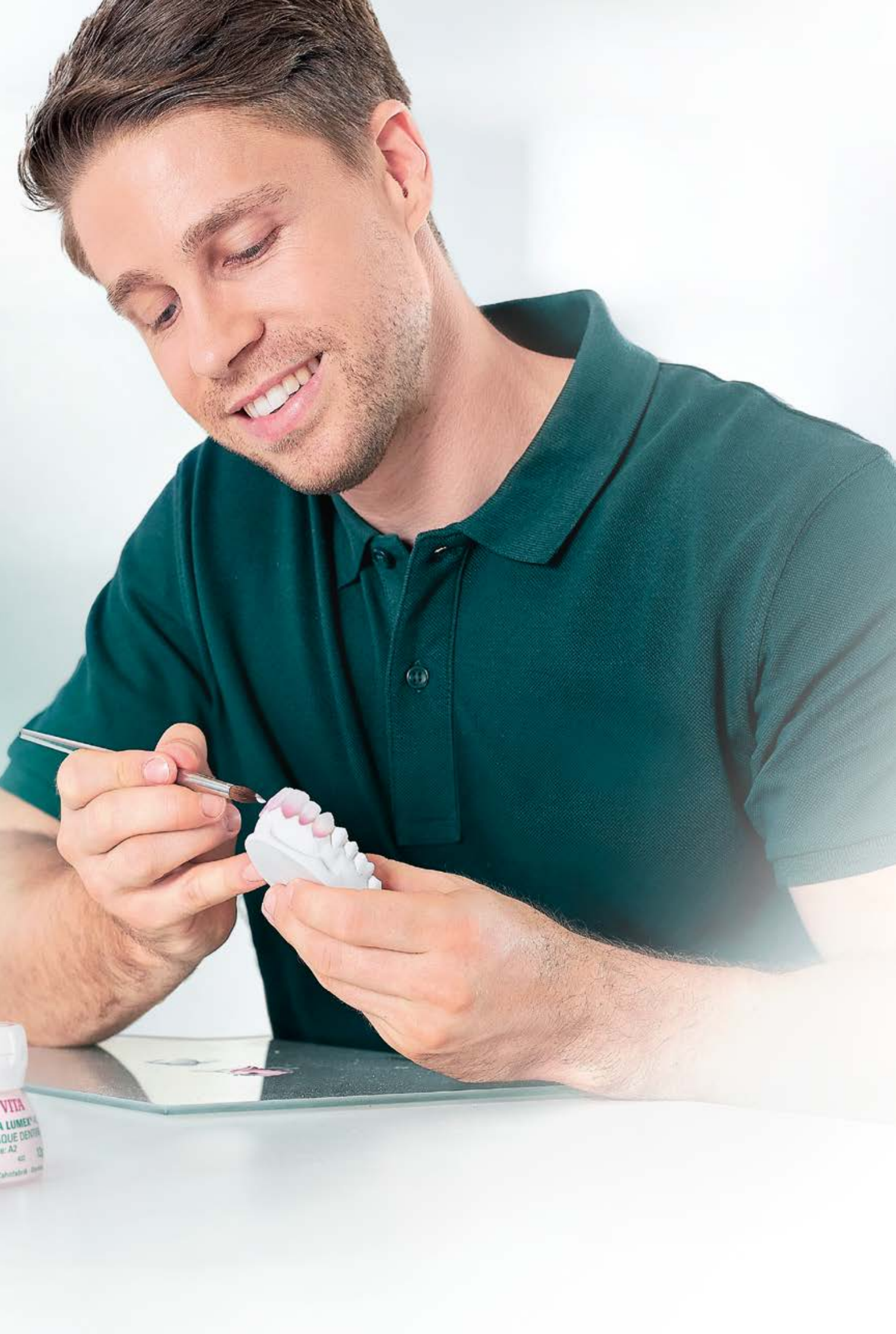
VITA – perfect match.

**VITA**

## CONCEPT AND BENEFITS

**VITA LUMEX® AC** is a highly esthetic veneering ceramic system for all common full ceramic substructure materials. It impresses with ideal shade fidelity, excellent light dynamics and reliable, efficient processing.







## VITA LUMEX® AC – SHADE FIDELITY, MULTIFACETED, EFFICIENT.



### What?

- VITA LUMEX AC is a leucite-reinforced, glass-ceramic veneering system with an innovative material formula for vivid and reliable results with shade accuracy

### What for?

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

### With what?

- 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 INTENSE and much more)
  - ideally matched system components such as brushes, firing trays, glazing materials, etc.



*"VITA LUMEX AC offers everything that I need:  
Precise shade reproduction, high firing stability  
and excellent surfaces."*

Dental Technician Hubert Karbowski, Poznań, Poland, 08/19



## THE ADVANTAGES

*true to shade, mimics nature*



### **true to shade, mimics nature**

- Reliably reproduces tooth shades, as well as a natural play of shade and light, thanks to ceramic materials with very good shade fidelity and excellent light dynamics

### **Efficient and precise**

- Process veneering ceramic efficiently and precisely, thanks to the ideal modeling properties, outstanding shape stability and universal applicability for all substructure ceramics

### **Highly durable**

- Produce durable restorations, thanks to the high fracture resistance of the leucite-enhanced glass ceramic matrix and a reliable bond to the substructure



*efficient and precise*

*highly durable*



## EXCELLENT LIGHT DYNAMICS IN ALL FACETS



*"VITA LUMEX AC impresses with a good balance between translucency and chromaticity and features a wonderful play of shade and light intraorally without appearing gray."*

Dental Technician Marcio Breda, Vitória, Espírito Santo, Brazil, 08/19



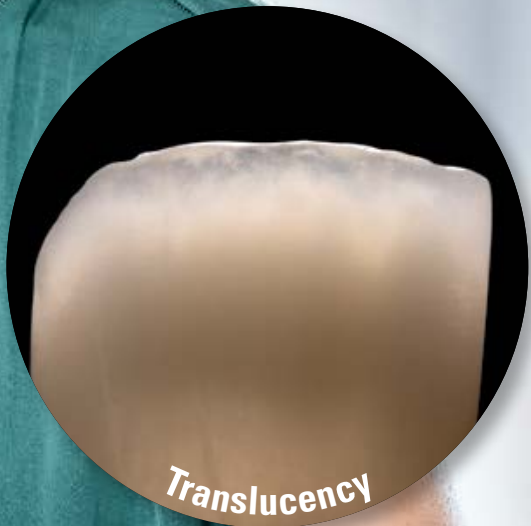
### VITA LUMEX® AC

- ENAMEL materials have a natural translucency for ideal light transmission
- OPAL TRANSLUCENT materials make a brilliant, opalescent play of shade possible
- FLUO INTENSE materials support the reproduction of natural fluorescence





Opalescence



Translucency



Fluorescence

## REPRODUCE TOOTH SHADES RELIABLY



### Precise shade formula

- Thanks to high-precision metrological processes, the development and production of the LUMEX AC ceramic achieves very high shade fidelity.



### Precise shade determination

- With the visual and digital shade determination systems of VITA, tooth shades can be determined with high precision.





*"What makes VITA LUMEX AC unique are its qualities of precise shade reproduction in accordance with the VITA shade standard"*

Dental Technician Eric Berger, Metz, France, 08/19

### **Precise shade reproduction**

- Precise tooth shade information and true-to-shade VITA LUMEX AC DENTINE and ENAMEL material enable efficient and reliable shade reproduction.



## FOR A VARIETY OF NATURAL RESTORATIONS



### VITA LUMEX® AC

- is a ceramic for all variations in natural dentition, enabling highly individual, age-appropriate prosthetic restorations



For highly individual, age-appropriate restorations

*"VITA LUMEX AC enables especially esthetic, predictable results and is suitable for the veneering of all common ceramic substructure materials"*

Dental Technician Mike Prosperino,  
Monte Sant'Angelo, Italy, 08/19

## A SYSTEM FOR ALL SUBSTRUCTURE CERAMICS

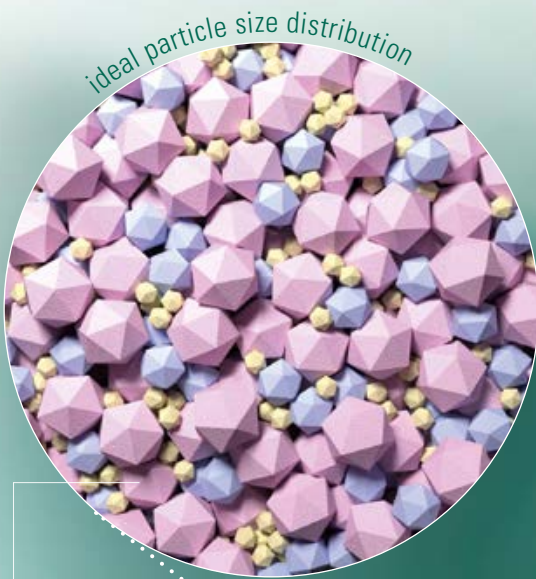


### VITA LUMEX® AC

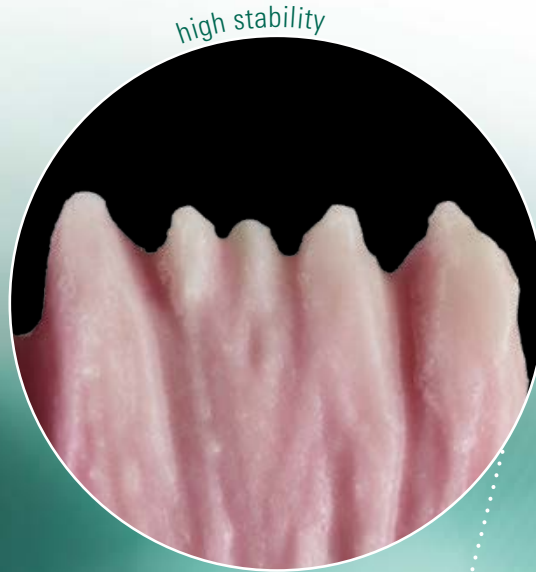
- is ideally adjusted to all common substructure ceramics, thanks to a coefficient of thermal expansion of the golden proportion.



## HIGHLY PRECISE MODELING



Exemplary, simplified visualization of particle size distribution / micro-serration



*"The VITA LUMEX AC ceramic is very stable and can therefore be modeled in a highly precise manner."*

Dental Technician Jürgen Freitag, Bad Homburg, Germany, 08/19



### VITA LUMEX® AC

- enables highly precise modeling, thanks to outstanding stability, and based on optimal interlocking of the ceramic particles through ideal particle size distribution



## FACTS AND FEATURES

**VITA LUMEX®** AC was developed according to the highest quality standards. Discover the most important facts and evidence regarding the numerous advantages of the veneering system below.

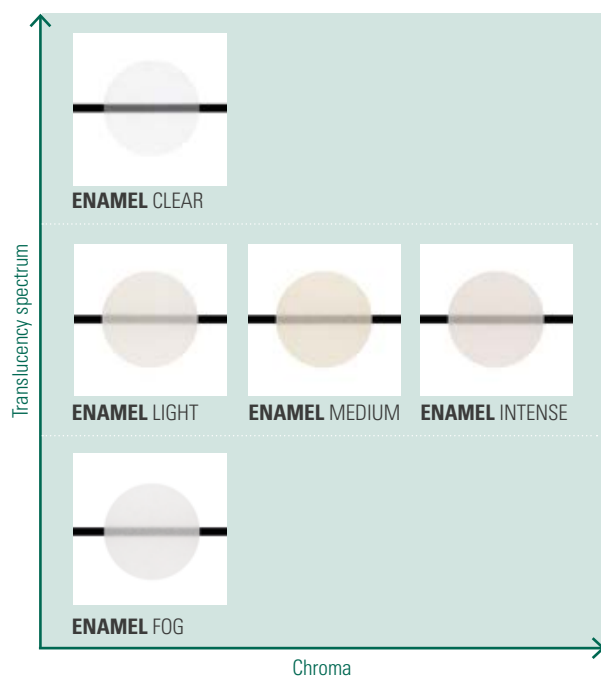






## REASONS FOR A VIVID PLAY OF SHADE AND LIGHT

### Lively play of light

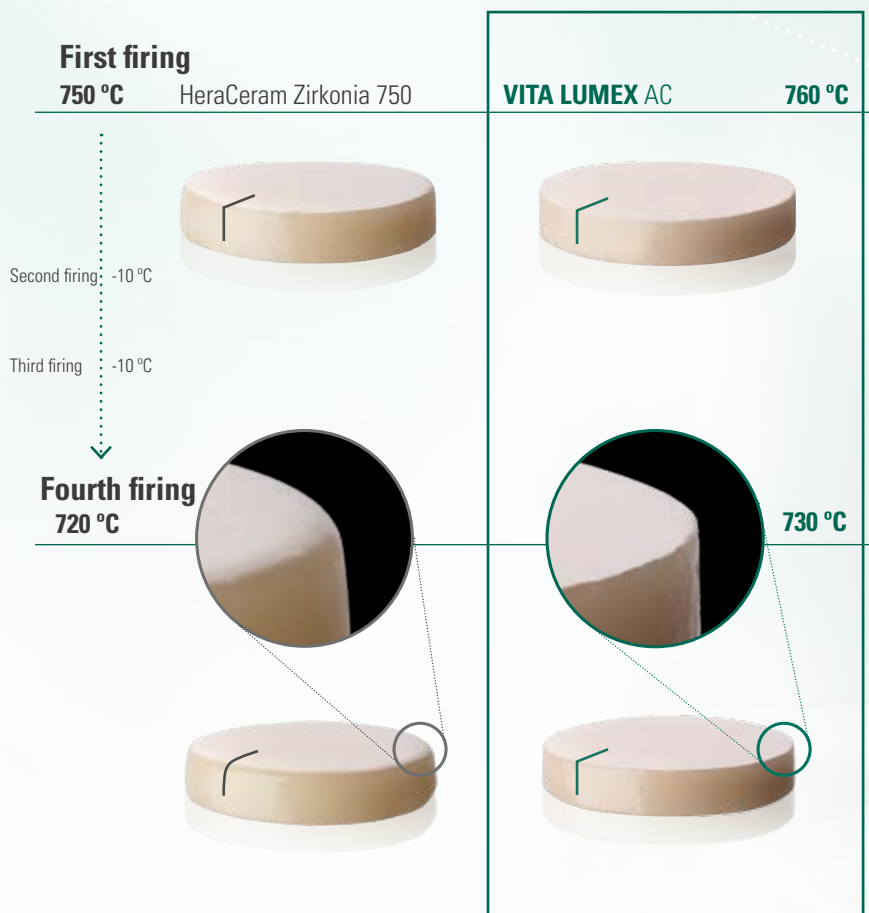


### VITA LUMEX® AC

- offers the right ceramic for every desired degree of translucency, thanks to finely graduated ENAMEL materials – from whitish-opaque to glass clear

## REASONS FOR EFFICIENT, PRECISE PROCESSING

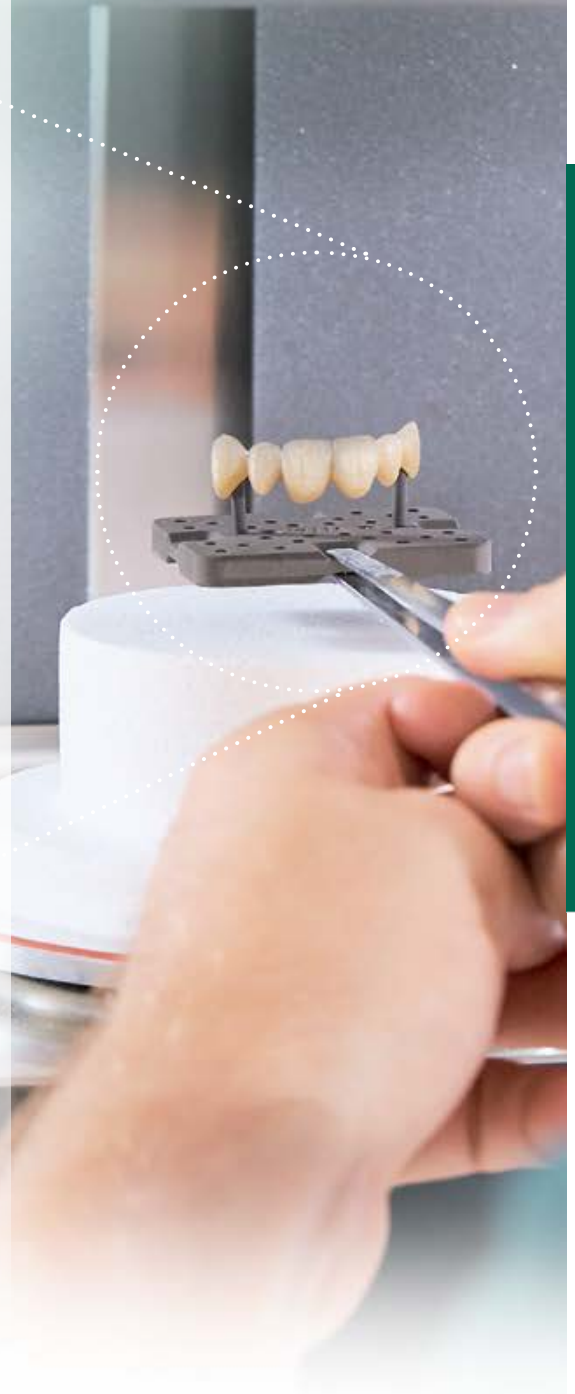
Reliable firing results, thanks to excellent shape stability



Source: Internal investigation of VITA R&D, Analysis of firing stability after four firings with test specimens of the abovenamed materials, Report 08/19, Dr. B. Gödiker, ([1] see back of prospectus)

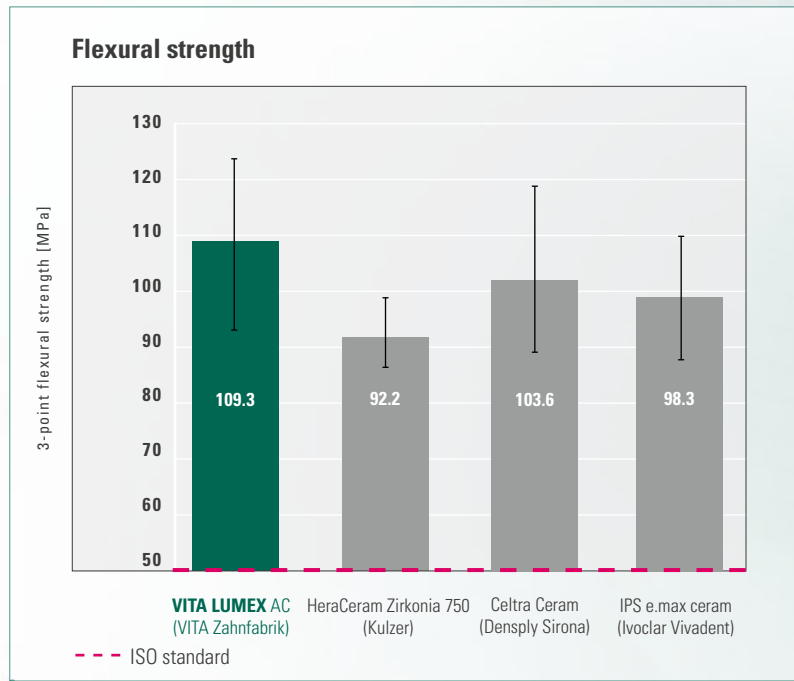
### VITA LUMEX® AC

- enables reliable, shape-stable firing results through minimized material shrinkage, thanks to a homogeneous material structure with high density



## REASONS FOR OUTSTANDING DURABILITY

Excellent durability, thanks to high fracture resistance



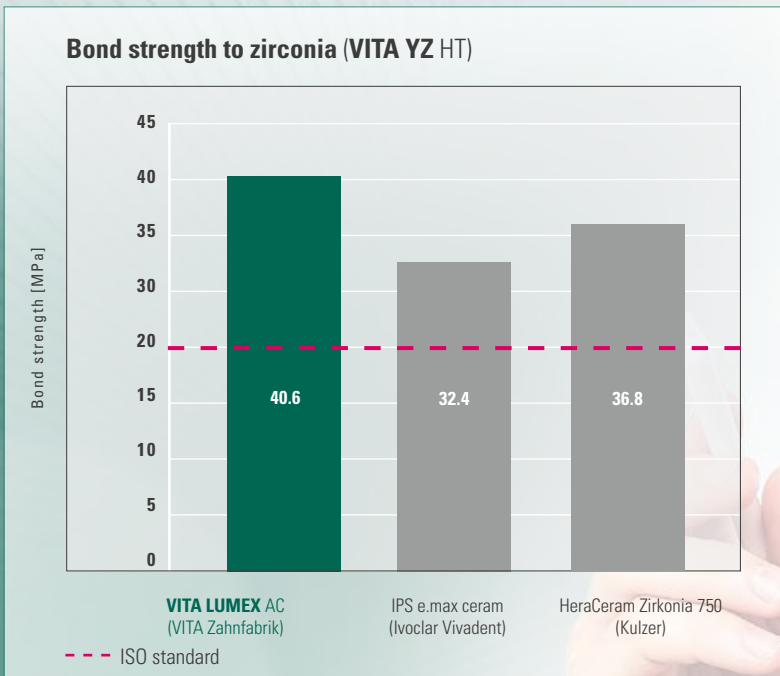
Source: Internal investigation of VITA R&D, Measurement of 3-point bending strength, according to ISO 6872 with the abovenamed materials, Report 08/19, Dr. B. Gödiker, ([1] see back of prospectus)

### VITA LUMEX® AC

- allows the expectation of good clinical durability, thanks to its outstanding fracture resistance
- achieves stability values in tests that are significantly above the standard requirements



## Outstanding durability, thanks to excellent bonding quality



Source: Internal investigation of VITA R&D, Measurement of bond strength according to ISO 9693 ("Schwickerath test") with the abovenamed materials, Report 08/19, Dr. B. Gödiker, ([1] see back of prospectus)

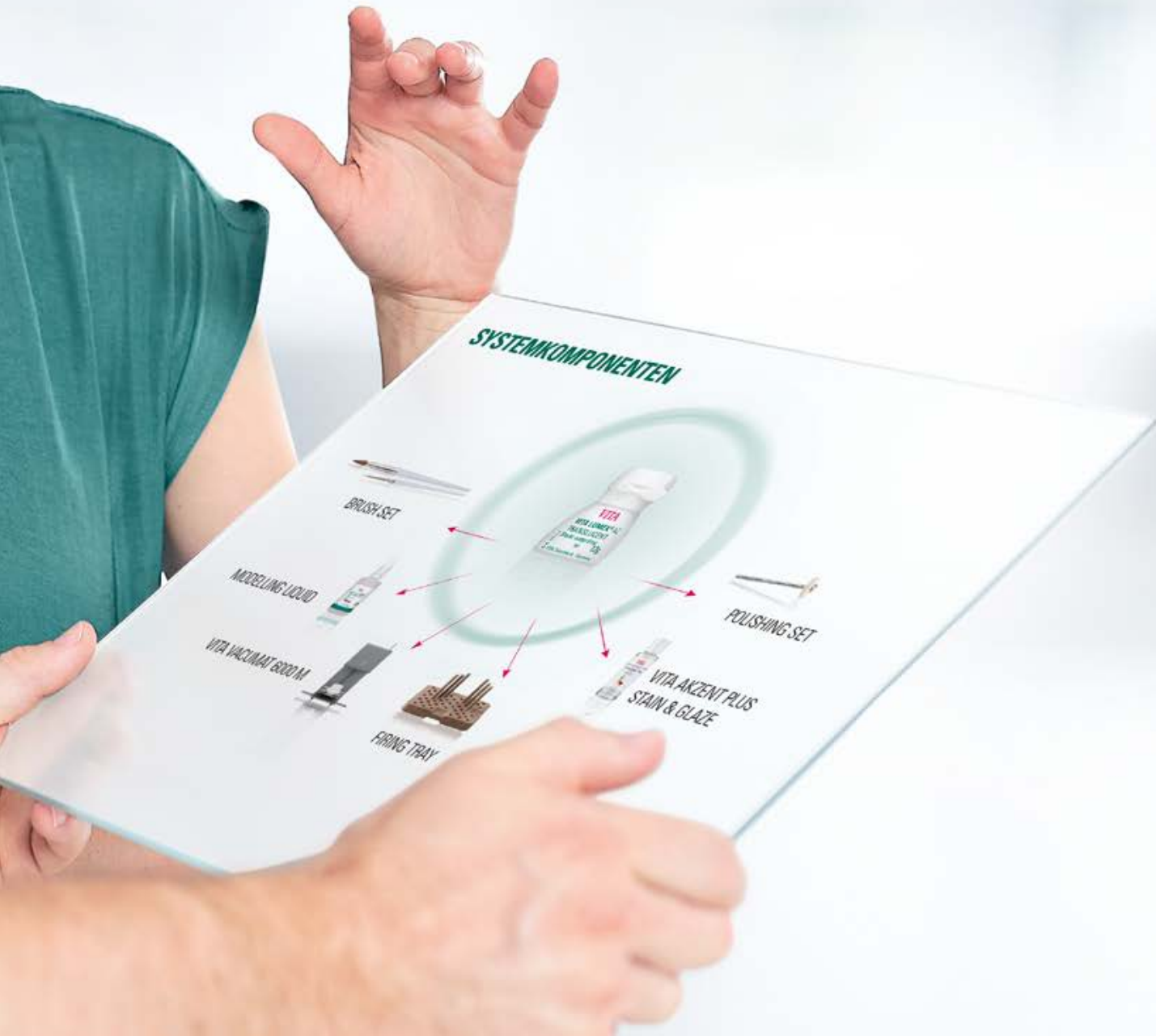
### VITA LUMEX® AC

- features an excellent, durable bond to substructure ceramics, thanks to ideally matched thermal expansion coefficients (TEC)
- achieves bond strength values in tests that are significantly above the standard requirements

A man and a woman, both wearing green shirts, are shown in profile, looking towards the right. The man is in the foreground, and the woman is slightly behind him. They appear to be engaged in a conversation or looking at something together. The background is a plain, light color.

## SYSTEM AND COMPONENTS

**VITA LUMEX®** AC veneering ceramic is available in a multitude of shades and variants. There are also many ideally matched system components. Get to know the entire spectrum of available materials now.



### SYSTEMKOMPONENTEN

BRUSH SET

MODELLING LIQUID

VITA VACUMAT 6000M

FIRING TRAY
































POLISHING SET

VITA AKZENT PLUS  
STAIN & GLAZE











































# OVERVIEW OF MATERIALS AND SHADES

VITA LUMEX® AC Portfolio Overview									
Basic materials									
 GINGIVA	For the reconstruction of gingival areas	 pale-papilla	 grapefruit	 deep-red					
		 light-rose	 rosewood	 dark-red					
		 nectarine	 purple						
 OPAQUE	For the masking of substructures**	 opaque-0	 opaque-3						
		 opaque-1	 opaque-4						
		 opaque-2	 opaque-5						
 OPAQUE DENTINE	For reproduction of the base shade in cases with minimum wall thicknesses.	<b>VITA classical A1–D4</b>							
		A1	A2	A3	A3.5	A4	B1	B2	B3
		B4	C1	C2	C3	C4	D2	D3	D4
		<b>VITA SYSTEM 3D-MASTER*</b>							
		0M1	0M2	0M3	1M1	1M2	2L1.5	2L2.5	2M1
		2M2	2M3	2R1.5	2R2.5	3L1.5	3L2.5	3M1	3M2
		3M3	3R1.5	3R2.5	4L1.5	4L2.5	4M1	4M2	4M3
		4R1.5	4R2.5	5M1	5M2	5M3			
		<b>VITA classical A1–D4</b>							
		A1	A2	A3	A3.5	A4	B1	B2	B3
B4	C1	C2	C3	C4	D2	D3	D4		
<b>VITA SYSTEM 3D-MASTER*</b>									
0M1	0M2	0M3	1M1	1M2	2L1.5	2L2.5	2M1		
2M2	2M3	2R1.5	2R2.5	3L1.5	3L2.5	3M1	3M2		
3M3	3R1.5	3R2.5	4L1.5	4L2.5	4M1	4M2	4M3		
4R1.5	4R2.5	5M1	5M2	5M3					
 DENTINE	For the reproduction of base shades in the neck and body area	 light	 clear						
		 medium	 fog						
		 intense							
 ENAMEL	For the reproduction of the play of shade and light in the tooth enamel	 light	 clear						
		 medium	 fog						
		 intense							

\*) VITA SYSTEM 3D-MASTER shades available beginning in the summer of 2020

\*\*\*) OPAQUE materials will be available beginning in the fall of 2020

## OVERVIEW OF MATERIALS AND SHADES

VITA LUMEX® AC Portfolio Overview				
Effect / addition materials DENTINE				
 DENTINE MODIFIER	For the reproduction of effects in the neck / dentine area	 cloudy-white	 copper	
		 caramel	 brown	
		 honey		
 CHROMA INTENSE	For the enhancement of chromaticity in the cervical area	 ivory		
		 almond		
		 hazelnut		
 FLUO INTENSE	For the control of fluorescence from the depths	 arctic-white	 sand	
		 cream	 sesame	
		 cappuccino		
 MAMELON	For the reconstruction of mamelons	 saffron		
		 honey-melon		
 MARGIN	For small corrections in edge areas**	 straw-yellow		
		 corn-yellow		
Effect / addition materials ENAMEL				
 TRANS-LUCENT	For the reproduction of shade effects in the enamel area	 smoky-white	 sunlight	 deep-blue
		 light-blonde	 sun-intense	 foggy-grey
		 misty-rose	 waterdrop	
 OPAL TRANS-LUCENT	For the reproduction of opal effects	 opal-neutral		
		 opal-sky		
		 opal-azure		
 PEARL	For the reproduction of mother-of-pearl effects	 shell		
 CORRECTIVE	For corrections after the glaze firing	 neutral		
		 desert		

\*\*\*) MARGIN materials will be available beginning in the fall of 2020

# ASSORTMENT OFFER

VITA LUMEX® AC assortment overview

## VITA LUMEX® AC core assortment

### STANDARD KIT

For standard veneering

**Contents:**

- 16 x OPAQUE DENTINE
- 16 x DENTINE
- 5 x ENAMEL
- 2 x CORRECTIVE
- Accessories: modeling liquid, glazing material + liquid, brush, firing tray

### EXPERT KIT

For individual veneering

**Contents:**

- 8 x TRANSLUCENT
- 3 x CHROMA INTENSE
- 5 x FLUO INTENSE
- 5 x DENTINE MODIFIER
- 3 x OPAL TRANSLUCENT
- 2 x MAMELON, 1 x PEARL
- Accessories: modeling liquid, glazing material + liquid

### CUT-BACK KIT

For cut-back and micro-veneering

**Contents:**

- 5 x ENAMEL
- 8 x TRANSLUCENT
- 3 x OPAL TRANSLUCENT
- 2 x CORRECTIVE

## VITA LUMEX® AC special assortments

### GINGIVA KIT

For the reconstruction of gingival areas

**Contents:**

- 8 x GINGIVA

## VITA LUMEX® AC first-time user assortments

### STARTER KIT

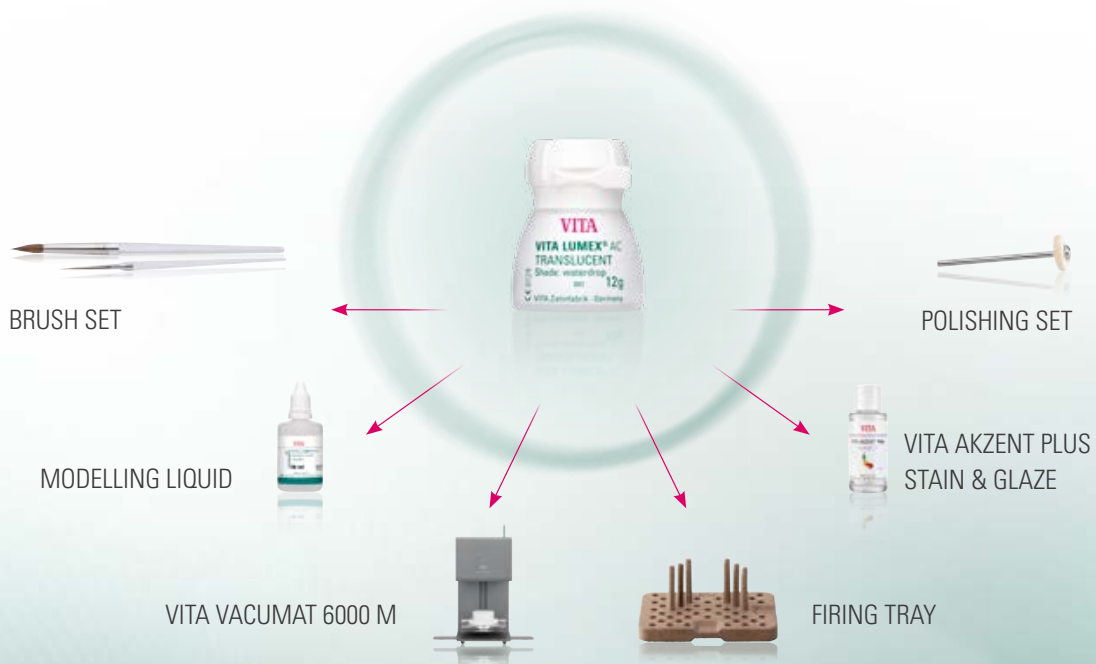
For the first introduction

**Contents:**

- 4 x OPAQUE DENTINE
- 4 x DENTINE
- 4 x ENAMEL
- 3 x TRANSLUCENT
- 2 x OPAL TRANSLUCENT
- 3 x FLUO INTENSE
- 1 x PEARL
- 2 x CORRECTIVE
- Accessories: modeling liquid, glazing material + liquid, brush, firing tray



# SYSTEM COMPONENTS



## IDEAL SOLUTIONS FOR THE TREATMENT WORKFLOW

### Shade determination



- For digital shade determination, use **VITA Easyshade V**, and for traditional shade determination, use a **VITA shade guide**.

### Substructure fabrication



- Manufacture substructures using CAD/CAM from **VITA YZ SOLUTIONS** zirconia and **VITABLOCS** feldspar ceramic or by the pressing technique from **VITA AMBRIA** lithium disilicate ceramic.

### Veneering



- Veneer all common substructure ceramics with the highly esthetic veneering ceramic **VITA LUMEX AC**.

### Characterization Glaze



- Characterize and glaze restorations with the **VITA AKZENT PLUS** stains/glazing materials.

### Firing



- For veneer and stain firings, use the **VITA VACUMAT 6000 M** firing unit.

### Polishing



- Polish restorations with the recommended **VITA Karat Diamond Polishing Set**.

### Bonding



- **VITA LUMEX AC**-veneered restorations are bonded with full or self-adhesive bonding protocol with **VITA ADIVA LUTING SOLUTIONS**.









## WE ARE HAPPY TO HELP

> More information about the products and processing is also available at [www.vita-zahnfabrik.com](http://www.vita-zahnfabrik.com)



### Hotline Sales Support

Mr. Udo Wolfner and his team (Internal Sales Department) will be glad to assist you with orders or questions about the delivery, product data and marketing materials.

► Phone +49 (0) 7761 / 56 28 84  
Fax +49 (0) 7761 / 56 22 99  
8:00 a.m. to 5 p.m. CET  
E-mail: [info@vita-zahnfabrik.com](mailto:info@vita-zahnfabrik.com)



### Technical Hotline

If you have technical questions concerning VITA product solutions, you can contact our technical specialists Mr. Ralf Mehlin or Mr. Daniel Schneider.

► Phone +49 (0) 7761 / 56 22 22  
Fax +49 (0) 7761 / 56 24 46  
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## VITA VENEERING & STAINING SOLUTIONS – For a lifelike play of shade and light in all facets of nature.



### > VITA LUMEX® AC: Ideal shade fidelity. Excellent light dynamics. Precise processing.

The veneering ceramic for all common ceramic substructure materials impresses with brilliant shade fidelity, excellent light dynamics and precise processing.

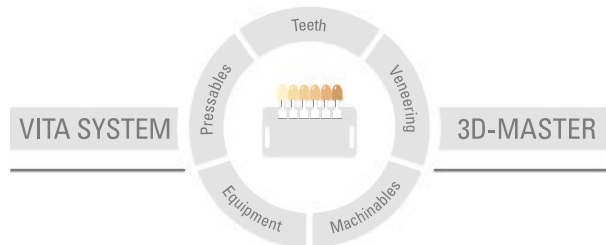
You can find more information on VITA LUMEX AC at:  
[www.vita-zahnfabrik.com/lumex](http://www.vita-zahnfabrik.com/lumex)

#### References

##### 1. Internal studies, VITA R&D:

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

For detailed test data, see technical and scientific documentation  
VITA LUMEX AC;  
Download at [www.vita-zahnfabrik.com/lumex](http://www.vita-zahnfabrik.com/lumex)



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