VITA LUMEX® AC

Ideal shade fidelity. Excellent light dynamics. Precise processing.

VITA shade determination | VITA shade communication | VITA shade reproduction | VITA shade control

Date of issue: 11.19

VITA – perfect match.
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.
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 Karbowiak, Poznań, Poland, 08/19
• 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

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

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

“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

EXCELLENT LIGHT DYNAMICS IN ALL FACETS
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.
Precise shade reproduction

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

“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
VITA LUMEX® AC

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

FOR A VARIETY OF NATURAL 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
• is ideally adjusted to all common substructure ceramics, thanks to a coefficient of thermal expansion of the golden proportion.
HIGHLY PRECISE MODELING

“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.
CONCEPT AND BENEFITS

SYSTEMS AND COMPONENTS FACTS AND FEATURES

[Image]
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

**VITA LUMEX® AC**

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

**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

- 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

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 abovementioned materials, Report 08/19, Dr. B. Gödiker, [1] see back of prospectus
**Outstanding durability, thanks to excellent bonding quality**

**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

Source: Internal investigation of VITA R&D, Measurement of bond strength according to ISO 9693 ("Schwickertath test") with the abovenamed materials, Report 06/19, Dr. B. Gödiker, [1] see back of prospectus
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.
## Overview of Materials and Shades

### VITA LUMEX® AC Portfolio Overview

### Basic Materials

<table>
<thead>
<tr>
<th><strong>GINGIVA</strong></th>
<th>For the reconstruction of gingival areas</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OPAQUE</strong></td>
<td>For the masking of substructures**</td>
</tr>
<tr>
<td><strong>OPAQUE DENTINE</strong></td>
<td>For reproduction of the base shade in cases with minimum wall thicknesses.</td>
</tr>
<tr>
<td><strong>DENTINE</strong></td>
<td>For the reproduction of base shades in the neck and body area</td>
</tr>
<tr>
<td><strong>ENAMEL</strong></td>
<td>For the reproduction of the play of shade and light in the tooth enamel</td>
</tr>
</tbody>
</table>

#### VITA Classic A1–D4

<table>
<thead>
<tr>
<th>Shade</th>
<th>A1</th>
<th>A2</th>
<th>A3</th>
<th>A3.5</th>
<th>A4</th>
<th>B1</th>
<th>B2</th>
<th>B3</th>
</tr>
</thead>
<tbody>
<tr>
<td>B4</td>
<td>C1</td>
<td>C2</td>
<td>C3</td>
<td>C4</td>
<td>D2</td>
<td>D3</td>
<td>D4</td>
<td></td>
</tr>
</tbody>
</table>

#### VITA System 3D-Master*

<table>
<thead>
<tr>
<th>Shade</th>
<th>0M1</th>
<th>0M2</th>
<th>0M3</th>
<th>1M1</th>
<th>1M2</th>
<th>2L1.5</th>
<th>2L2.5</th>
<th>2M1</th>
</tr>
</thead>
<tbody>
<tr>
<td>2M2</td>
<td>2M3</td>
<td>2R1.5</td>
<td>2R2.5</td>
<td>3L1.5</td>
<td>3L2.5</td>
<td>3M1</td>
<td>3M2</td>
<td></td>
</tr>
<tr>
<td>3M3</td>
<td>3R1.5</td>
<td>3R2.5</td>
<td>4L1.5</td>
<td>4L2.5</td>
<td>4M1</td>
<td>4M2</td>
<td>4M3</td>
<td></td>
</tr>
<tr>
<td>4R1.5</td>
<td>4R2.5</td>
<td>5M1</td>
<td>5M2</td>
<td>5M3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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*) 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

<table>
<thead>
<tr>
<th>Material</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dentine Modifier</strong></td>
<td>For the reproduction of effects in the neck / dentine area</td>
</tr>
<tr>
<td></td>
<td>cloudy-white, copper, caramel, brown</td>
</tr>
<tr>
<td><strong>Chroma Intense</strong></td>
<td>For the enhancement of chromaticity in the cervical area</td>
</tr>
<tr>
<td></td>
<td>ivory, almond, hazelnut</td>
</tr>
<tr>
<td><strong>Fluo Intense</strong></td>
<td>For the control of fluorescence from the depths</td>
</tr>
<tr>
<td></td>
<td>arctic-white, sand, cream, sesame</td>
</tr>
<tr>
<td><strong>Mamelon</strong></td>
<td>For the reconstruction of mamelons</td>
</tr>
<tr>
<td></td>
<td>saffron, honey-melon</td>
</tr>
<tr>
<td><strong>Margin</strong></td>
<td>For small corrections in edge areas**</td>
</tr>
<tr>
<td></td>
<td>straw-yellow, corn-yellow</td>
</tr>
</tbody>
</table>

#### Effect / Addition Materials: Enamel

<table>
<thead>
<tr>
<th>Material</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Translucent</strong></td>
<td>For the reproduction of shade effects in the enamel area</td>
</tr>
<tr>
<td></td>
<td>smoky-white, sunlight, deep-blue, light-blond, sun-intense, foggy-grey</td>
</tr>
<tr>
<td></td>
<td>misty-rose, waterdrop</td>
</tr>
<tr>
<td><strong>Opal Translucent</strong></td>
<td>For the reproduction of opal effects</td>
</tr>
<tr>
<td></td>
<td>opal-neutral, opal-sky, opal-azure</td>
</tr>
<tr>
<td><strong>Pearl</strong></td>
<td>For the reproduction of mother-of-pearl effects</td>
</tr>
<tr>
<td></td>
<td>shell</td>
</tr>
<tr>
<td><strong>Corrective</strong></td>
<td>For corrections after the glaze firing</td>
</tr>
<tr>
<td></td>
<td>neutral, desert</td>
</tr>
</tbody>
</table>

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

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
IDEAL SOLUTIONS FOR THE TREATMENT WORKFLOW

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

- 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.

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

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

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

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

- 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

Hotline Sales Support
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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

References
1. Internal studies, VITA R&D:
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For detailed test data, see technical and scientific documentation
VITA LUMEX AC:
Download at www.vita-zahnfabrik.com/lumex

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VITA LUMEX®AC

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