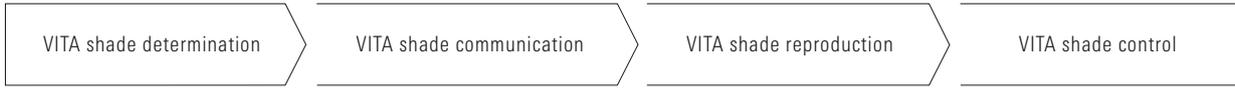


# VITAVM<sup>®</sup>13

Product information



VITA – perfect match.

**VITA**

For veneering metal substructures  
in the conventional CTE range.  
Available in VITA SYSTEM 3D-MASTER  
and VITA classical A1–D4 shades.

Veneering Material · VITAVM.13

available in VITA SYSTEM 3D-MASTER and VITA classical A1–D4 shades



**Matched with all alloys**



VITA VM 13 is a highly-esthetic, fine-structure feldspar ceramic that is perfectly adapted to the CTE value of conventional bonding alloys (approx. 13.8 – 15.2 mK), regardless of whether the conventional alloys are cast, milled or sintered.

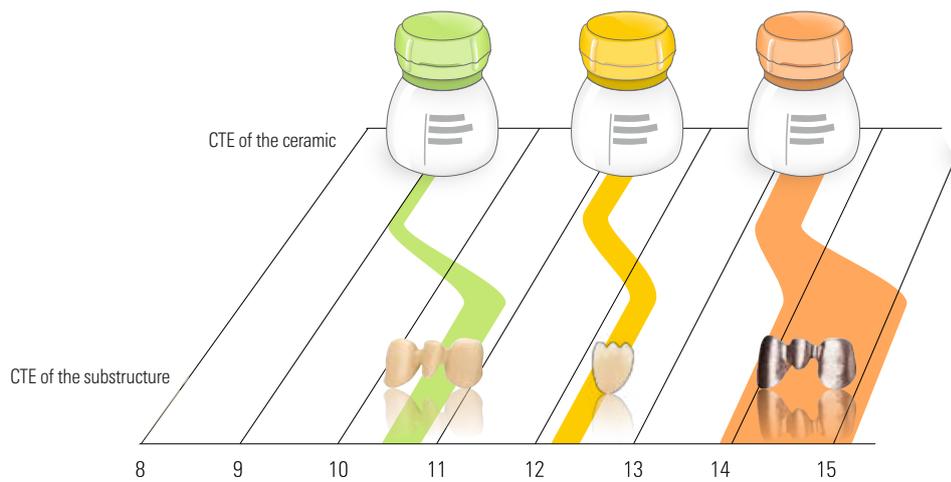
VITA VM 13 provides a genuine alternative to all-ceramics, and works well wherever the masking effect of a metal framework is required.

The firing temperature (880°C, dentin firing) provides tremendous processing reliability, particularly for alloys with a low solidus temperature (<1100°C).

VITA VM 13 is a high-quality system component that is part of the innovative VITA VM concept.

<b>Your benefits at a glance:</b>
<ul style="list-style-type: none"> <li>• Natural shade and light effects, thanks to the fine structure</li> <li>• Comprehensive range of additional materials for outstanding processing</li> <li>• Can be individualized using VITA AKZENT Plus and VITA INTERNO</li> <li>• Process reliability, thanks to long-standing experience</li> <li>• Available in VITA SYSTEM 3D-MASTER and VITA classical A1–D4 shades</li> </ul>

**VITAVM.13** Reliable use, thanks to clear classification.



Veneering material	Substructure material
VITA VM 9 CTE (25–500°C) $9.0-9.2 \cdot 10^{-6} \cdot K^{-1}$	VITA YZ CTE (25–500°C) approx. $10.5 \cdot 10^{-6} \cdot K^{-1}$ VITABLOCS CTE (25–500°C) approx. $9.4 \cdot 10^{-6} \cdot K^{-1}$ VITA PM 9 CTE (25–500°C) $9.0-9.5 \cdot 10^{-6} \cdot K^{-1}$
VITA VM 11 CTE (25–500°C) $11.2-11.6 \cdot 10^{-6} \cdot K^{-1}$	VITA SUPRINITY PC Zirconia reinforced lithium silicate glass ceramic CTE (25–600°C) approx. $12.3 \cdot 10^{-6} \cdot K^{-1}$
VITA VM 13 CTE (25–500°C) $13.1-13.6 \cdot 10^{-6} \cdot K^{-1}$	High gold content, reduced precious metal content, palladium based and non-precious alloys CTE (25–600°C) $13.8-15.2 \cdot 10^{-6} \cdot K^{-1}$ *

\* visit the download section of our website for more information about alloys

**VITAVM®13** Coordinated additional materials for top-quality individualization



Example of an aged tooth with lifelike appearance and effect of depth. This tooth was layered with BASE DENTINE, ENAMEL and individual additional materials.

**VITAVM®13 EFFECT OPAL**

To prepare bluish effects on the surface with opal shimmer

**VITAVM®13 BASE DENTINE 50% + VITA INTERNO® 50%**

To create incisal characteristics and discoloration

**VITAVM®13 EFFECT ENAMEL**

For warm, yellow translucency in the central area of the tooth

**VITAVM®13 ENAMEL**

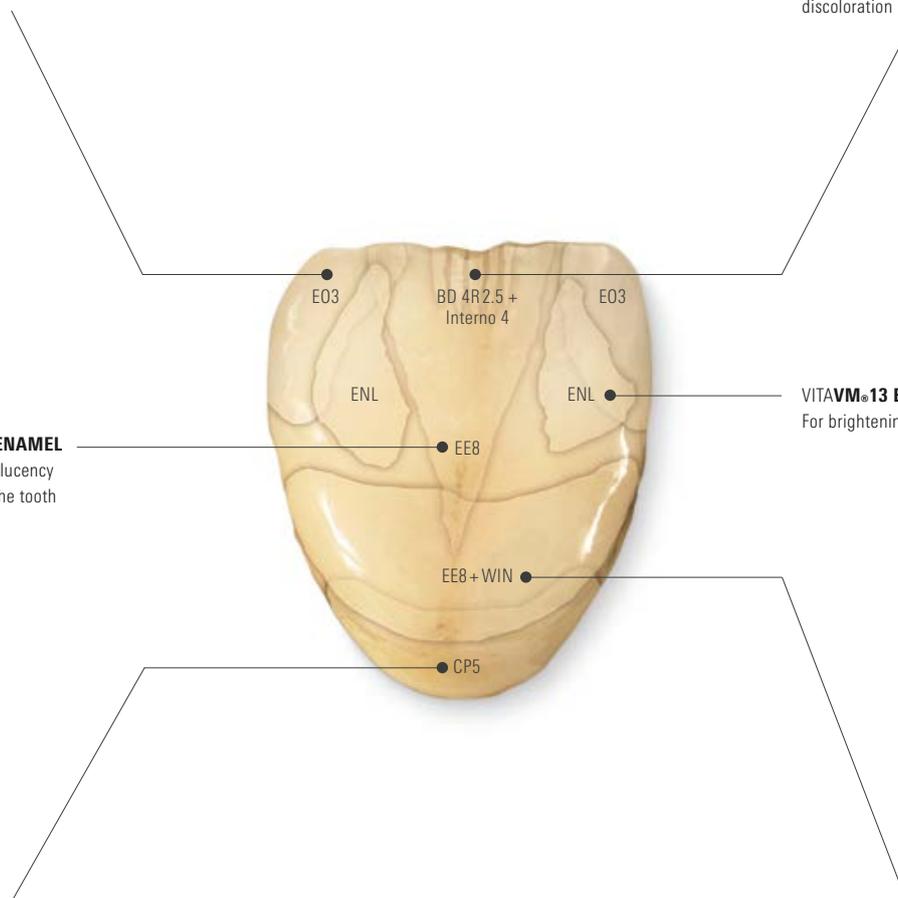
For brightening the mesial and distal areas

**VITAVM®13 CHROMA PLUS**

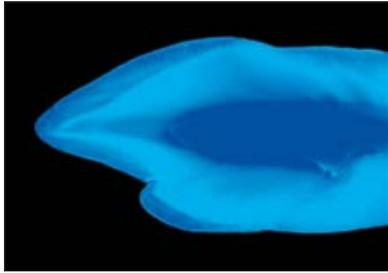
To increase the saturation in the cervical area

**VITAVM®13 EFFECT ENAMEL 50% + WINDOW 50%**

To increase the effect of depth in the body area with a reddish effect



## VITAVM<sup>®</sup>13 Natural esthetics



### Vivid play of colors with VITAVM<sup>®</sup>13

The objective of any esthetic dental restoration is the reproduction of the fluorescence and opalescence of natural teeth. Like all VITA VM materials, VITA VM 13 excels in its refraction and reflection behavior, which can be compared to that of natural enamel.

The picture taken under UV light clearly shows that different levels of fluorescence are found in natural teeth.

Numerous VITA VM materials contain pigments which add fluorescence to the restorations. The use of additional fluorescent and opalescent materials leads to individual and esthetically appealing results. VITA VM EFFECT LINER and VITA VM MAMELON materials, for example, feature particularly distinctive fluorescence.



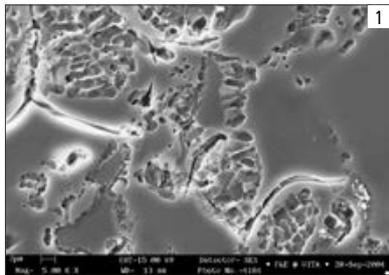
Picture taken at daylight: abundance of variations of opal effects



The VITA VM EFFECT OPAL materials were especially developed to create the opal effect found in the surface of translucent and young teeth.

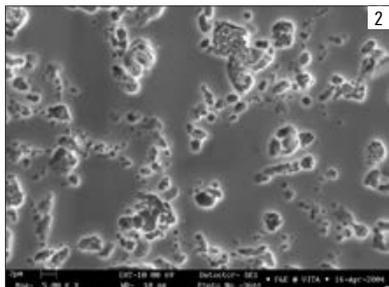


## VITAVM.13 Homogeneous surface



### The conventional metal ceramic

The etched surface reveals agglomerates of leucite crystals in the glass phase. The differences in the CTE of the leucite agglomerates and the glass phase may result in stress cracks.



### The fine difference

With VITA VM 13, a ceramic has been developed which clearly reveals more homogeneous distribution of the crystal and glass phases after firing than conventional ceramics. This innovative fine-structure is characteristic for all ceramic components of the VITA VM concept – for metal-ceramic or all-ceramic materials alike.

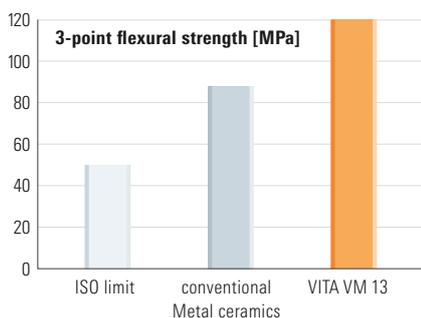
The etched surface of VITA VM 13 reveals particularly fine and homogeneous distribution of the leucite crystals in the glass phase. As a result, the formation of stress cracks is avoided and a smooth and perfectly dense surface is created, which provides VITA VM 13 with excellent milling and polishing properties.

As a result, the accumulation of plaque on the ceramic surface is considerably reduced and easy care and cleaning of restorations are enabled.

The low solubility also ensures high resistance in the oral environment and a prolonged period of wearing.

**Fig. 1:** SEM image of the surface of a conventional metal ceramic (magnification 5000 x)

**Fig. 2:** SEM image of the surface of VITA VM 13 (magnification 5000 x).



### Improved physical properties

VITA VM 13 features a variety of improved physical properties. These include, among others, the flexural strength, bonding strength and thermal resistance with lower solubility in acids.

3-point flexural strength of VITA VM 13 compared with that of a conventional metal ceramic and the ISO limit according to ISO 6872.

## VITAVM.13 Enamel-like abrasion behavior

All fine-structure VITA ceramics mimic natural dentition with excellent enamel-like properties, documented by VITA VM 7 and VITA VM 9 studies conducted by the Dental Clinic of the University of Zurich and the Goldman School of Medicine of the University of Boston.

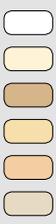
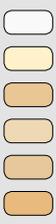
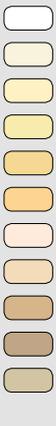
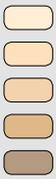
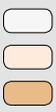
Literature: E. A. McLaren, R. A. Giordano II, R. Pober, B. Abozenada „Zweiphasige Vollglas Verblendkeramik“, (Quintessenz Zahntech 30, 1, 32 – 45 [2004])

### Advantages of the innovative fine-structure ceramic:

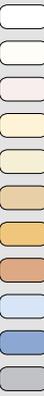
- Optimal processing characteristics such as superior stability, minimized shrinkage behavior and high-edge stability
- Impressive firing stability, even after several firing processes
- Excellent grinding and polishing properties due to homogeneous and sealed surfaces
- Proven similarity with enamel



## VITAVM.13 Additional materials

<p><b>VITA VM 13 EFFECT LINER</b></p> <ul style="list-style-type: none"> <li>– to control the fluorescence from the depth of the restoration</li> <li>– universally suitable to support and intensify the base shade</li> <li>– applied in the gingival area, they enhance the distribution of light</li> </ul>		<table border="1"> <tr><td>EL1</td><td>snow</td><td>white</td></tr> <tr><td>EL2</td><td>cream</td><td>beige</td></tr> <tr><td>EL3</td><td>tabac</td><td>brown</td></tr> <tr><td>EL4</td><td>golden fleece</td><td>yellow</td></tr> <tr><td>EL5</td><td>papaya</td><td>orange</td></tr> <tr><td>EL6</td><td>sesame</td><td>green-yellow</td></tr> </table>	EL1	snow	white	EL2	cream	beige	EL3	tabac	brown	EL4	golden fleece	yellow	EL5	papaya	orange	EL6	sesame	green-yellow																
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<p><b>VITA VM 13 MARGIN</b></p> <ul style="list-style-type: none"> <li>– to create an esthetic transition in the case of a labially shortened metal coping</li> <li>– after the application, the plastified MARGIN material must be hardened through the supply of heat; it is recommended to use a hair dryer or radiated heat from the furnace to stabilize the shoulder</li> </ul>		<table border="1"> <tr><td>M1</td><td>icy beige</td><td>white</td></tr> <tr><td>M4</td><td>wheat</td><td>yellow</td></tr> <tr><td>M5</td><td>amber</td><td>amber</td></tr> <tr><td>M7</td><td>seashell</td><td>light beige</td></tr> <tr><td>M8</td><td>tan</td><td>pastel-brown</td></tr> <tr><td>M9</td><td>beach</td><td>light orange</td></tr> </table>	M1	icy beige	white	M4	wheat	yellow	M5	amber	amber	M7	seashell	light beige	M8	tan	pastel-brown	M9	beach	light orange																
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<p><b>VITA VM 13 EFFECT CHROMA</b></p> <ul style="list-style-type: none"> <li>– color-intensive modifier porcelains</li> <li>– to accentuate certain color areas of the tooth</li> <li>– to vary the lightness value in the neck, dentine and enamel areas</li> </ul>		<table border="1"> <tr><td>EC1</td><td>ghost</td><td>white</td></tr> <tr><td>EC2</td><td>linen</td><td>sand-beige</td></tr> <tr><td>EC3</td><td>pale banana</td><td>light yellow</td></tr> <tr><td>EC4</td><td>lemon drop</td><td>tender lemon yellow</td></tr> <tr><td>EC5</td><td>golden rod</td><td>light orange</td></tr> <tr><td>EC6</td><td>sunflower</td><td>orange</td></tr> <tr><td>EC7</td><td>light salmon</td><td>pink</td></tr> <tr><td>EC8</td><td>toffee</td><td>beige-brown</td></tr> <tr><td>EC9</td><td>doe</td><td>brown</td></tr> <tr><td>EC10</td><td>larch</td><td>green-brown</td></tr> <tr><td>EC11</td><td>gravel</td><td>green-grey</td></tr> </table>	EC1	ghost	white	EC2	linen	sand-beige	EC3	pale banana	light yellow	EC4	lemon drop	tender lemon yellow	EC5	golden rod	light orange	EC6	sunflower	orange	EC7	light salmon	pink	EC8	toffee	beige-brown	EC9	doe	brown	EC10	larch	green-brown	EC11	gravel	green-grey	
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<p><b>VITA VM 13 MAMELON</b></p> <ul style="list-style-type: none"> <li>– highly fluorescent porcelain, which is mainly used in the incisal area</li> <li>– for shade characterization between incisal edge and dentine</li> </ul>		<table border="1"> <tr><td>MM1</td><td>ecru</td><td>beige</td></tr> <tr><td>MM2</td><td>mellow buff</td><td>warm yellow-brown</td></tr> <tr><td>MM3</td><td>peach puff</td><td>tender orange</td></tr> </table>	MM1	ecru	beige	MM2	mellow buff	warm yellow-brown	MM3	peach puff	tender orange																									
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<p><b>VITA VM 13 CHROMA PLUS</b></p> <ul style="list-style-type: none"> <li>– Chroma Plus materials can be used to achieve more intensive shade reproduction in the cervical region (especially with VITA classical A1–D4 shades)</li> <li>– in case of thin walls, they enhance the shade in an efficient manner</li> </ul>		<table border="1"> <tr><td>CP1</td><td>ivory</td><td>ivory</td></tr> <tr><td>CP2</td><td>almond</td><td>beige</td></tr> <tr><td>CP3</td><td>moccasin</td><td>light orange-brown</td></tr> <tr><td>CP4</td><td>caramel</td><td>orange</td></tr> <tr><td>CP5</td><td>burlywood</td><td>green-brown</td></tr> </table>	CP1	ivory	ivory	CP2	almond	beige	CP3	moccasin	light orange-brown	CP4	caramel	orange	CP5	burlywood	green-brown																			
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<p><b>VITA VM 13 CORRECTIVE</b></p> <ul style="list-style-type: none"> <li>– with reduced firing temperature (830°C) for corrections after glaze firing</li> <li>– in three nuances for neck, dentine and enamel areas</li> </ul>		<table border="1"> <tr><td>COR1</td><td>neutral</td><td>neutral</td></tr> <tr><td>COR2</td><td>sand</td><td>beige</td></tr> <tr><td>COR3</td><td>ochre</td><td>brown</td></tr> </table>	COR1	neutral	neutral	COR2	sand	beige	COR3	ochre	brown																									
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## VITAVM.13 Additional materials

<p><b>VITA VM 13 SUN OPAQUE</b></p> <ul style="list-style-type: none"> <li>– for mixing the respective opaque shades</li> <li>– in three different nuances</li> </ul>		<p>S01</p>	<p>yellowish</p>	<p>yellowish</p>	
<p><b>VITA VM 13 SUN DENTINE</b></p> <ul style="list-style-type: none"> <li>– for a "sunnier" and warmer shade result</li> <li>– to be used in the dentine and body area</li> </ul>		<p>SD1</p>	<p>sun light</p>	<p>light yellow</p>	
		<p>SD2</p>	<p>sun rise</p>	<p>light orange</p>	
<p><b>VITA VM 13 EFFECT ENAMEL</b></p> <ul style="list-style-type: none"> <li>– can be used for all enamel areas of the natural tooth</li> <li>– universally suitable translucent enamel effect materials</li> <li>– to achieve a natural effect of depth</li> </ul>		<p>EE1</p>	<p>mint cream</p>	<p>whitish-translucent</p>	
		<p>EE2</p>	<p>pastel</p>	<p>pastel</p>	
		<p>EE3</p>	<p>misty rose</p>	<p>pink-translucent</p>	
		<p>EE4</p>	<p>vanilla</p>	<p>yellowish</p>	
		<p>EE5</p>	<p>sun light</p>	<p>yellowish-translucent</p>	
		<p>EE6</p>	<p>navajo</p>	<p>reddish-translucent</p>	
		<p>EE7</p>	<p>golden glow</p>	<p>orange-translucent</p>	
		<p>EE8</p>	<p>coral</p>	<p>red-translucent</p>	
		<p>EE9</p>	<p>water drop</p>	<p>bluish-translucent</p>	
		<p>EE10</p>	<p>silver lake blue</p>	<p>blue</p>	
		<p>EE11</p>	<p>drizzle</p>	<p>greyish-translucent</p>	
<p><b>VITA VM 13 EFFECT PEARL</b></p> <ul style="list-style-type: none"> <li>– only suitable for effects on the surface, not for layering in</li> <li>– perfectly suitable for bleached restorations</li> <li>– to obtain nuances of yellow and red</li> </ul>		<p>EP1</p>	<p>pearl</p>	<p>shade in pastel-yellow</p>	
		<p>EP2</p>	<p>pearl blush</p>	<p>shade in pastel-orange</p>	
		<p>EP3</p>	<p>pearl rose</p>	<p>shade in pastel-rosé</p>	
<p><b>VITA VM 13 EFFECT OPAL</b></p> <ul style="list-style-type: none"> <li>– to create the opal effect in restorations of young and highly translucent teeth</li> </ul>		<p>E01</p>	<p>opal</p>	<p>neutral, universally suitable</p>	
		<p>E02</p>	<p>opal whitish</p>	<p>whitish</p>	
		<p>E03</p>	<p>opal bluish</p>	<p>bluish</p>	
		<p>E04</p>	<p>opal blue</p>	<p>blue</p>	
		<p>E05</p>	<p>opal dark violet</p>	<p>dark violet</p>	
<p><b>VITA VM 13 GINGIVA</b></p> <ul style="list-style-type: none"> <li>– to restore the original gingival situation</li> <li>– are applied and fired during the first and / or second dentine firing</li> <li>– color nuances range from orange-red and reddish to brown-red</li> </ul>		<p>G1</p>	<p>rose</p>	<p>dusky pink</p>	
		<p>G2</p>	<p>nectarine</p>	<p>orange-pink</p>	
		<p>G3</p>	<p>pink grapefruit</p>	<p>pink</p>	
		<p>G4</p>	<p>rosewood</p>	<p>brown-red</p>	
		<p>G5</p>	<p>cherry brown</p>	<p>dark red</p>	
		<p>G0L</p>	<p>light flesh</p>	<p>light pink</p>	
		<p>G0D</p>	<p>dark flesh</p>	<p>dark pink</p>	
<p><b>VITA VM 13 COLOR OPAQUE</b></p> <ul style="list-style-type: none"> <li>– shade-intensive opaque materials for the characterization of enamel and cervical areas</li> </ul>		<p>CO1</p>	<p>gold</p>	<p>orange</p>	
		<p>CO2</p>	<p>brown</p>	<p>brown</p>	
		<p>CO3</p>	<p>lilac</p>	<p>lilac</p>	

## VITAVM<sup>®</sup>13 Modular and efficient assortment kit options

	<p><b>VITAVM<sup>®</sup>13 BASIC KIT*</b> Basic assortment for BASIC layering (also available as BASIC KIT SMALL with reduced range of materials)</p>
	<p><b>VITAVM<sup>®</sup>13 BUILD UP KIT*</b> Add-on assortment for BUILD-UP layering</p>
	<p><b>VITAVM<sup>®</sup>13 CLASSICAL COLOR KIT</b> Assortment for VITA VM 13 3D-MASTER customers who wish to add VITA classical shades A1–D4 shades to their assortment.</p>
	<p><b>VITAVM<sup>®</sup>13 PROFESSIONAL KIT**</b> For incorporating all natural effects and characteristics (also available as PROFESSIONAL KIT SMALL with reduced range of materials)</p>
	<p><b>VITAVM<sup>®</sup>13 GINGIVA KIT**</b> Gingiva materials with natural effects</p>
	<p><b>VITAVM<sup>®</sup>13 MARGIN KIT**</b> For ceramic shoulder design</p>

\* Available in VITA SYSTEM 3D-MASTER and VITA classical A1–D4 shades.

\*\* Can be used for VITA SYSTEM 3D-MASTER and VITA A1–D4 shades

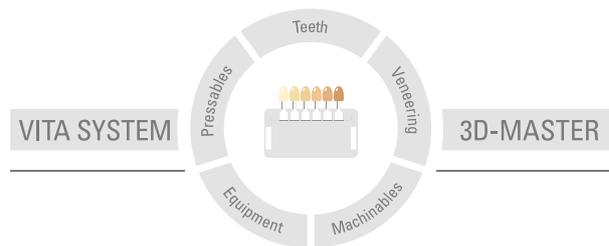
**VITAVM.13** All from one experienced and competent partner

	<p><b>VITA Easyshade® V</b>          For digital shade determination, use VITA Easyshade Advance V, and for visual shade determination the VITA Linearguide 3D-MASTER or VITA classical A1–D4, for example.</p>
	<p><b>VITA Easyshade LITE</b>          Enables easy and fast digital shade determination of natural teeth using the proven VITA classical A1-D4 and VITA SYSTEM 3D-MASTER shade systems.</p>
	<p><b>VITA VACUMAT® 6000 M furnace and VITA V60 i-Line®</b>          Ceramic firings should preferably be carried out with the VITA VACUMAT 6000 M premium furnace or with the versatile VITA V60 i-Line furnace.</p>
	<p><b>VITA AKZENT® Plus</b>          With VITA AKZENT PLUS stains, you can optimize the shade of all types of dental ceramic restorations simply and efficiently, regardless of the CTE of the restoration.</p>
	<p>Polish restorations with the recommended VITA CERAMICS Polishing Set.</p>

For more information visit [www.vita-zahnfabrik.com](http://www.vita-zahnfabrik.com)

VITA VM 13 veneering material is available in VITA SYSTEM 3D-MASTER and VITA classical A1–D4 shades. Shade compatibility with all VITA 3D-MASTER and VITA classical materials is guaranteed.

With the unique VITA SYSTEM 3D-MASTER, all natural tooth shades can be systematically determined and perfectly reproduced.



**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 this information: 2024-04

After the publication of this information for use any previous versions become obsolete. The current version can be found at [www.vita-zahnfabrik.com](http://www.vita-zahnfabrik.com)

VITA Zahnfabrik has been certified and the following products bear the mark

CE 0124:

VITAVM<sup>®</sup>13

The photos on page 5 were provided with the kind support of Mr. Claude Sieber.

 Rx Only

# VITA

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[www.vita-zahnfabrik.com](http://www.vita-zahnfabrik.com) · [info@vita-zahnfabrik.com](mailto:info@vita-zahnfabrik.com)  
 [facebook.com/vita.zahnfabrik](https://facebook.com/vita.zahnfabrik)