

VITAVM[®]9

Product information



VITA shade determination

VITA shade communication

VITA shade reproduction

VITA shade control

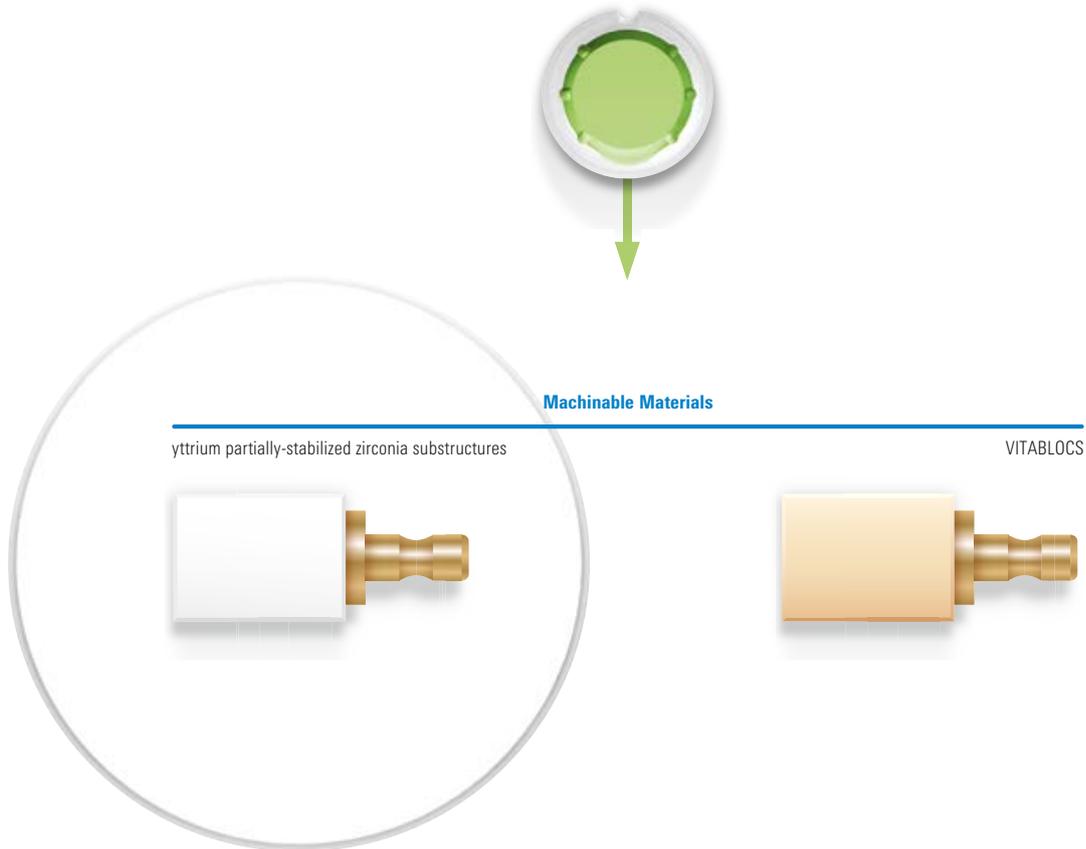
VITA – perfect match.

VITA

For veneering zirconia substructures
and for individualizing VITABLOCS.
Available in VITA SYSTEM 3D-MASTER
and VITA classical A1 – D4 shades.

Veneering Material · VITAVM.9

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



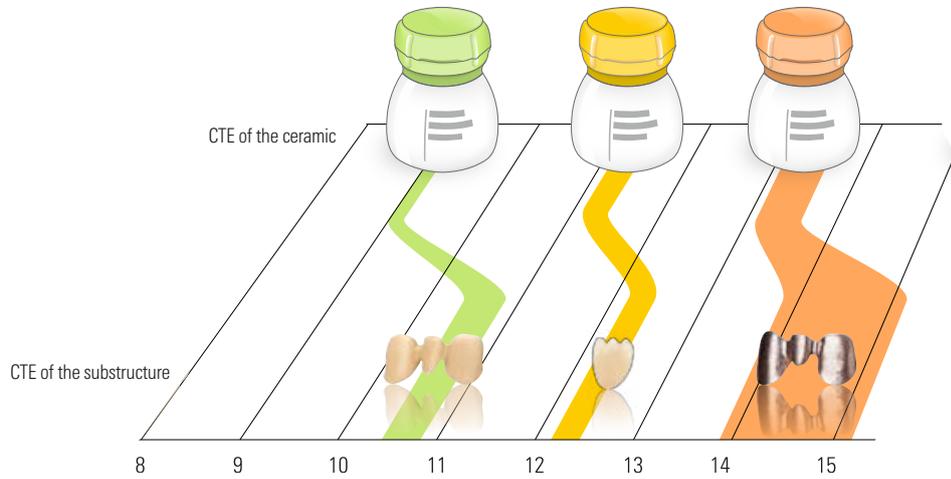
Flexibility and customization - these are the requirements that today's zirconia ceramics must meet. The high-melting, fine-structure ceramic VITA VM 9, sets the benchmark in versatility. It is used for veneering zirconia substructures in the CTE range of approx. 10.0 - 10.5 such as VITA YZ. It is also recommended for customizing restorations made from VITABLOCS Mark II.

This ceramic also demonstrates the benefits of a typical VITA VM ceramic by offering numerous possibilities for esthetic design.

Your benefits at a glance:

- Natural shade and light effects, thanks to the fine structure
- Excellent bonding ensures reliable results
- Minimized shrinkage behavior reduces repeated firings
- Comprehensive range of additional materials for individualization
- Process reliability based on many years of experience

VITAVM.9 Reliable use, thanks to unmistakable classification



| Veneering material | Substructure material |
|---|--|
| <p>VITA VM 9 CTE (25–500°C) $9.0\text{--}9.2 \cdot 10^{-6} \cdot \text{K}^{-1}$</p> | <p>VITA YZ CTE (25–500°C) $10.0\text{--}10.5 \cdot 10^{-6} \cdot \text{K}^{-1}$ VITABLOCS CTE (25–500°C) approx. $9.4 \cdot 10^{-6} \cdot \text{K}^{-1}$ VITA PM 9 CTE (25–500°C) $9.0\text{--}9.5 \cdot 10^{-6} \cdot \text{K}^{-1}$</p> |
| <p>VITA VM 11 CTE (25–500°C) $11.2\text{--}11.6 \cdot 10^{-6} \cdot \text{K}^{-1}$</p> | <p>VITA SUPRINITY PC CTE (25–500°C) approx. $12.3 \cdot 10^{-6} \cdot \text{K}^{-1}$</p> |
| <p>VITA VM 13 CTE (25–500°C) $13.1\text{--}13.6 \cdot 10^{-6} \cdot \text{K}^{-1}$</p> | <p>High gold content, reduced precious metal content, palladium based and non-precious alloys CTE (25–600°C) $13.8\text{--}15.2 \cdot 10^{-6} \cdot \text{K}^{-1}$ *</p> |

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

VITAVM.9 Coordinated additional materials for top-quality individualization



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

VITAVM.9 EFFECT ENAMEL

To prepare bluish translucent wedges

VITAVM.9 EFFECT CHROMA

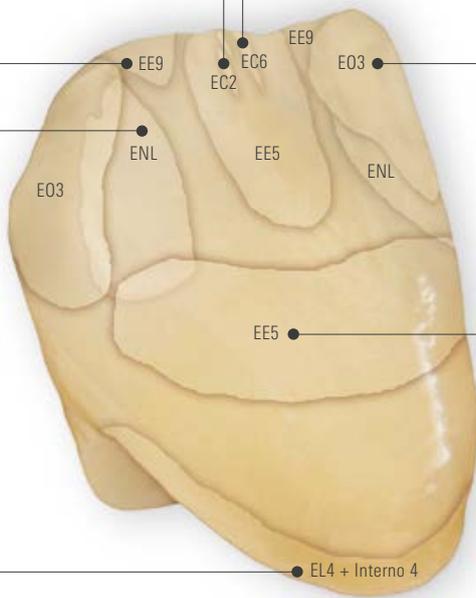
To create minor nuances and lighter areas

VITAVM.9 EFFECT OPAL

To create bluish orange areas

VITAVM.9 ENAMEL

To incorporate lighter mesial and distal edges

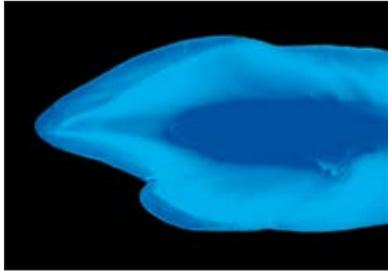


VITAVM.9 EFFECT LINER + VITA INTERNO®

To increase the fluorescence and translucency in the neck area

VITAVM.9 EFFECT ENAMEL

To increase the effect of depth by applying EE5 directly to BASE DENTINE



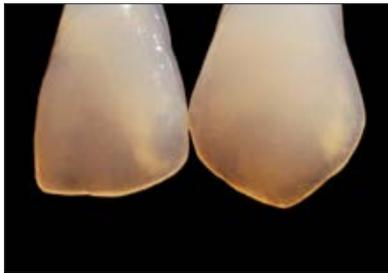
Vivid play of colors with VITAVM.9

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 9 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.

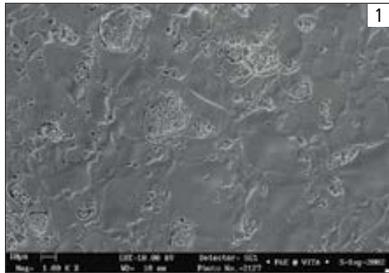
The EFFECT LINER and MAMELON materials, for example, feature particularly distinctive fluorescence.



Picture taken at daylight: abundance of variations of opal effects

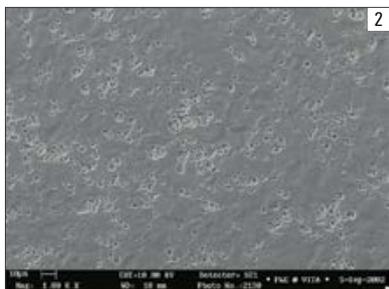
The EFFECT OPAL materials were especially developed to create the opal effect found in the surface of translucent and young teeth.





The conventional ceramic

The etched surface (etched for 20 seconds with VITA CERAMICS ETCH) reveals agglomerates of leucite crystals of up to 30 µm in diameter. The differences between the CTE values of the leucite agglomerates and those of the glass phase frequently result in stress cracks.



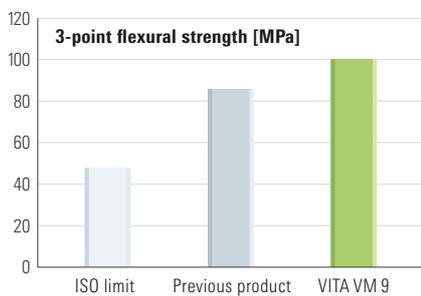
The fine difference

With VITA VM 9, 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 components of the VITA VM concept – whether for metal or all-ceramic materials.

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

Fig. 2: SEM image of the surface of VITA VM 9 (magnification 5000 x).

The etched surface of VITA VM 9 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 9 with excellent milling and polishing properties. Plus, the accumulation of plaque is considerably reduced and easy care and cleaning of restorations is enabled. The low solubility of VITA VM 9 ensures high resistance in the oral environment and a long wearing period.



Flexural strength

Flexural strength of VITA VM 9 compared with that of the previous product and the ISO limit according to ISO 6872.

VITAVM.9 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.

(Prof. Dr. Russel A. Giordano II, Boston University Prof. Dr. Edward A. McLaren, UCLA, 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:

- Excellent bonding ensures reliable results
- Impressive processing characteristics, such as superior stability, minimized shrinkage behavior and high edge stability
- Outstanding firing stability, even after several firing processes
- Improved physical values, such as flexural strength
- Proven similarity with enamel



VITAVM[®]9 Additional materials

| | | | | | |
|---|---|------|------------------|-------------------------------|---|
| VITAVM[®]9 EFFECT ENAMEL – can be used for all enamel areas of the natural tooth – universally suitable translucent enamel effect material – for achieving a natural effect of depth |  | EE1 | mint cream | whitish-translucent |  |
| |  | EE2 | pastel | pastel | |
| |  | EE3 | misty rose | pink-translucent | |
| |  | EE4 | vanilla | yellowish | |
| |  | EE5 | sun light | yellowish-translucent | |
| |  | EE6 | navajo | reddish-translucent | |
| |  | EE7 | golden glow | orange-translucent | |
| |  | EE8 | coral | red-translucent | |
| |  | EE9 | water drop | bluish-translucent | |
| |  | EE10 | silver lake blue | blue | |
| |  | EE11 | drizzle | greyish-translucent | |
| VITAVM[®]9 EFFECT PEARL – only suitable for effects on the surface, not for layering in – perfectly suitable for bleached restorations |  | EP1 | pearl | shade in pastel-yellow |  |
| |  | EP2 | pearl blush | shade in pastel-orange | |
| |  | EP3 | pearl rose | shade in pastel-rosé | |
| VITAVM[®]9 EFFECT OPAL – to create the opal effect in restorations of young and translucent teeth |  | E01 | opal | neutral, universally suitable |  |
| |  | E02 | opal whitish | whitish | |
| |  | E03 | opal bluish | bluish | |
| |  | E04 | opal blue | blue | |
| |  | E05 | opal dark violet | dark violet | |
| VITAVM[®]9 EFFECT LINER – universally suitable to support and intensify the base shade – applied in the gingival area, enhances the distribution of light – can also be used for the washbake; the firing temperature, however, must be 970°C |  | EL1 | snow | white |  |
| |  | EL2 | cream | beige | |
| |  | EL3 | tabac | brown | |
| |  | EL4 | golden fleece | yellow | |
| |  | EL5 | papaya | orange | |
| |  | EL6 | sesame | green-yellow | |
| VITAVM[®]9 MARGIN – for minor corrections at the margin area – 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 |  | M1 | beige | white |  |
| |  | M4 | wheat | yellow | |
| |  | M5 | amber | amber | |
| |  | M7 | seashell | light beige | |
| |  | M8 | tan | pastel-brown | |
| |  | M9 | beach | light orange | |
| VITAVM[®]9 ADD-ON – low-melting materials (800°C) – especially for individualizing substructure-free VITA PM 9 restorations – are based on the fine-structure veneering material VITA VM 9 – eight different shades |  | ADD1 | B4229112 | transparent |  |
| |  | ADD2 | B4229212 | enamel, light | |
| |  | ADD3 | B4229312 | enamel, dark | |
| |  | ADD4 | B4229412 | whitish-transparent | |
| |  | ADD5 | B4229512 | yellowish-translucent | |
| |  | ADD6 | B4229612 | orange-translucent | |
| |  | ADD7 | B4229712 | red-translucent | |
| |  | ADD8 | B4229812 | blue-translucent | |

VITAVM[®]9 Additional materials

| | | | | |
|---|---|--|--|---|
| <p>VITAVM[®]9 SUN DENTINE</p> <ul style="list-style-type: none"> – to obtain a brighter or warmer shade, the respective TRANSPA DENTINE can either be mixed with SUN DENTINE or replaced by SUN DENTINE |  | <p>SD1</p> <p>SD2</p> <p>SD3</p> | <p>sun light light yellow</p> <p>sun rise light orange</p> <p>sun set orange-red</p> |  |
| <p>VITAVM[®]9 CHROMA PLUS</p> <ul style="list-style-type: none"> – Chroma Plus materials can be used to achieve more intensive shade reproduction in the cervical region (especially with VITA classical A1–D4 shades) – In restorations with thin walls, they enhance the shade in an effective manner |  | <p>CP1</p> <p>CP2</p> <p>CP3</p> <p>CP4</p> <p>CP5</p> | <p>ivory ivory</p> <p>almond beige</p> <p>moccasin light orange-brown</p> <p>caramel orange</p> <p>burlywood green-brown</p> |  |
| <p>VITAVM[®]9 EFFECT CHROMA</p> <ul style="list-style-type: none"> – color-intensive modifier porcelains – to accentuate certain color areas of the tooth – to vary the lightness value in the neck, dentine and enamel areas |  | <p>EC1</p> <p>EC2</p> <p>EC3</p> <p>EC4</p> <p>EC5</p> <p>EC6</p> <p>EC7</p> <p>EC8</p> <p>EC9</p> <p>EC10</p> <p>EC11</p> | <p>ghost white</p> <p>linen sand-beige</p> <p>pale banana light yellow</p> <p>lemon drop tender lemon yellow</p> <p>golden rod light orange</p> <p>sunflower orange</p> <p>light salmon pink</p> <p>toffee beige-brown</p> <p>doe brown</p> <p>larch green-brown</p> <p>gravel green-grey</p> |  |
| <p>VITAVM[®]9 MAMELON</p> <ul style="list-style-type: none"> – highly fluorescent material, which is mainly used in the incisal area – for shade characterization between incisal edge and dentine |  | <p>MM1</p> <p>MM2</p> <p>MM3</p> | <p>ecru beige</p> <p>mellow buff warm yellow-brown</p> <p>peach puff tender orange</p> |  |
| <p>VITAVM[®]9 GINGIVA</p> <ul style="list-style-type: none"> – to restore the original gingival situation – are applied and fired during the first and / or second dentine firing – color nuances range from orange-red and reddish to brown-red |  | <p>G1</p> <p>G2</p> <p>G3</p> <p>G4</p> <p>G5</p> | <p>rose dusky pink</p> <p>nectarine orange-pink</p> <p>pink grapefruit pink</p> <p>rosewood brown-red</p> <p>cherry brown dark red</p> |  |
| <p>VITAVM[®]9 CORRECTIVE</p> <ul style="list-style-type: none"> – with reduced firing temperature (760°C) for corrections after glaze firing – in three nuances for neck, dentine and enamel areas |  | <p>COR1</p> <p>COR2</p> <p>COR3</p> | <p>neutral neutral</p> <p>sand beige</p> <p>ochre brown</p> |  |

VITAVM[®]9 Modular and efficient assortment kit options

| | |
|---|--|
|  | <p>VITAVM[®]9 BASIC KIT* BASIC assortment for BASIC layering</p> |
|  | <p>VITAVM[®]9 BUILD UP KIT* Add-on assortment for BUILD-UP layering</p> |
|  | <p>VITAVM[®]9 CLASSICAL COLOR KIT Assortment for VITAVM 9 3D-MASTER customers who wish to add VITA classical shades A1–D4 shades to their assortment. The kit contains 16 BASE DENTINE materials for BASIC layering and 16 additional TRANSPA DENTINE materials for BUILD-UP layering.</p> |
|  | <p>VITAVM[®]9 PROFESSIONAL KIT** For incorporating all natural effects and characteristics</p> |
|  | <p>VITAVM[®]9 GINGIVA KIT** Gingiva materials with natural effects</p> |
|  | <p>VITAVM[®]9 MARGIN KIT** For minor corrections in the margin areas to create an esthetic transition</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

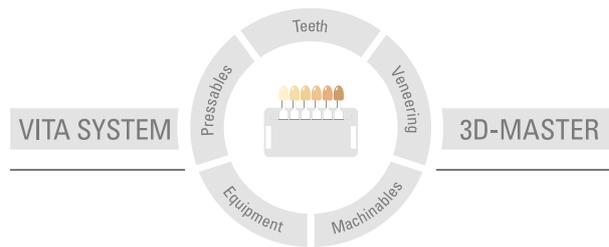
VITAVM.9 All from one experienced and competent partner

| | |
|---|---|
|  | <p>VITA Easyshade® V 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>VITA Easyshade LITE 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>VITA YZ® SOLUTIONS The translucent VITA YZ is available for CAD/CAM fabrication. VITA VM 9 is also perfectly suited for individualizing VITABLOCS.</p> |
|  | <p>VITA VACUMAT® 6000 M furnace and VITA V60 i-Line® 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>VITA AKZENT® Plus 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

VITA VM 9 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

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

CE 0124

VITAVM⁹

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

 Rx Only

VITA

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