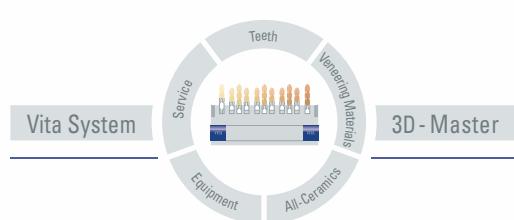


VITA All-Ceramics

VITA In-Ceram®

THE FUTURE IN PEAK FORM



VITA

VITA In-Ceram®

Non-stop to every indication

No matter what your scheduled indication, with the highest degree of innovation, cutting edge technology and precision, VITA provides you with the best material every time: VITA In-Ceram – the innovative ceramic.

The wide spectrum of oxide ceramic substructures is matched precisely to your requirements. For every indication you can always be sure of the best material. Whatever your patient's initial situation, or for whatever manufacturing procedure you decide (slip-casting or milling technique), our wide range of ceramics for glass infiltration and dense sintering guides you through the correct material selection from the innovative VITA In-Ceram product family straight towards the perfect solution each time.

VITA In-Ceram permits

- a wide spectrum of indications through a wide variety of materials
- shade accuracy through individual shading of substructures
- excellent esthetics and biocompatibility as well as
 - non-adhesive cementation of the restorations and guarantees you
 - a reliable working procedure and clinical success, to which 16 million clinical restorations bear witness.





Indications and materials

	Oxide ceramic				
	Infiltration ceramics			Sintering ceramics	
	VITA In-Ceram SPINELL	VITA In-Ceram ALUMINA	VITA In-Ceram ZIRCONIA	VITA In-Ceram AL	VITA In-Ceram YZ
	—	—	—	●	●
	○	—	—	—	—
	○	—	—	—	—
	—	—	—	—	—
	—	—	—	—	—
	●	●	○	●	●
	—	●	●	●	●
	—	—	—	—	●
	○	●	●	●	●
	—	—	●	—	●
	—	—	—	—	●
Veneering material					

● recommended

○ possible

* max. 2 pontics

Glass infiltration



VITA In-Ceram® SPINELL

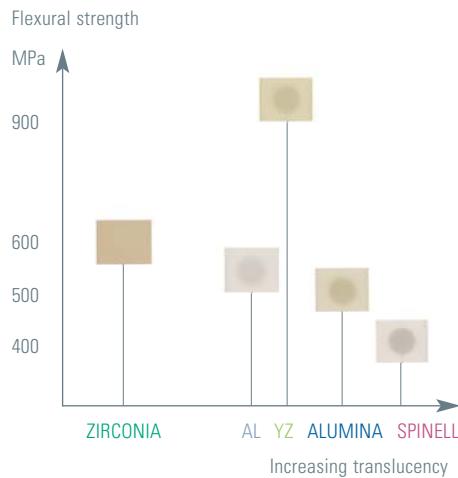
VITA In-Ceram SPINELL ($MgAl_2O_4$) has the greatest translucency of all oxide ceramics, which makes it ideal for manufacturing all-ceramic anterior crown copings. This applies particularly to vital tooth stumps and youthful patients.

VITA In-Ceram® ALUMINA

VITA In-Ceram ALUMINA (Al_2O_3) offers the perfect synthesis of esthetics and strength. The material is versatile and is suitable for the manufacture of crown copings and anterior bridge substructures with up to 3 units.

VITA In-Ceram® ZIRCONIA

VITA In-Ceram ZIRCONIA ($Al_2O_3-ZrO_2$) is the oxide ceramic with the greatest masking power. This makes it particularly suitable for severely discolored tooth stumps and combines the fracture toughness of ZrO_2 with the high flexural strength of Al_2O_3 . Their areas of application are crown copings and anterior and posterior bridge substructures of up to three units.

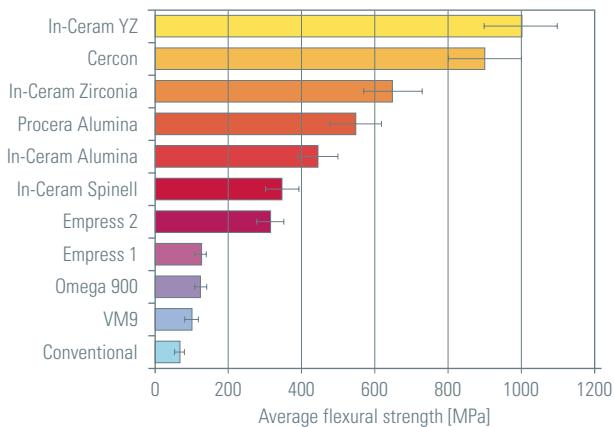




Dense sintering

VITA In-Ceram® AL

VITA In-Ceram AL (Al_2O_3) demonstrates an impressive degree of corrosion resistance and biocompatibility. The ceramic blocks are densely sintered at over 1500°C in a special high-temperature furnace (VITA ZYrcomat). The presintered ceramic is used for the manufacture of high-strength crown copings, anterior bridge substructures with up to 3 units and primary parts for the telescopic crown technique.



Edward A. McLaren, Russel A. Giordano II: Material properties, esthetics and layering techniques of a zirconium oxide and veneering ceramic. Quintessenz Zahntech 2007: 33(1) 78-92.

VITA In-Ceram® YZ

VITA In-Ceram YZ (Y-TZP) is the “ceramic steel” of the oxide ceramics. The industrially presintered blocks consist of partially yttrium stabilized ZrO_2 . This results in exceedingly high strength (markedly above 900 MPa) and above average fracture toughness ($5.9 \text{ MPa} \cdot \text{m}^{1/2}$). VITA In-Ceram YZ is ideally suited for the fabrication of crown copings as well as anterior and posterior bridge substructures with several units with high stability yet a filigree design.

Shading with COLORING LIQUID

The special liquids VITA In-Ceram AL COLORING LIQUID and VITA In-Ceram YZ COLORING LIQUID are used for the individual shading of substructures made of the corresponding blocks. Available in five lightness levels matched to the VITA SYSTEM 3D-MASTER, both liquids enhance the precise shade reproduction with VITA VM 7 and VITA VM 9.



Individualization

Veneering with VITAVM®

All veneering materials of the innovative VITA VM concept result in a highly efficient and reliable working procedure. In contrast to traditional ceramics, VITA VM, thanks to our know-how, is distinguished by a particularly homogeneous distribution of the crystal and glass phase. This gives your restorations their unique enamel-like properties of a natural tooth.

- VITA VM 7 is optimally matched to all-ceramic substructure materials for the CTE range of 7.2 – 7.9. This applies particularly to VITA In-Ceram ALUMINA, VITA In-Ceram SPINELL, VITA In-Ceram ZIRCONIA as well as VITA In-Ceram AL.
- VITA VM 9 has been matched to all customary zirconium oxide substructures for a CTE of approx. 10.5 – particularly for VITA In-Ceram YZ. And what's more, VITA VM 9 is ideally suited for the individualization of VITABLOCS restorations made of fine-structure feldspar ceramic.



VITA In-Ceram SPINELL
VITA In-Ceram ALUMINA
VITA In-Ceram ZIRCONIA
VITA In-Ceram AL

VITA In-Ceram YZ

VITAPM®9

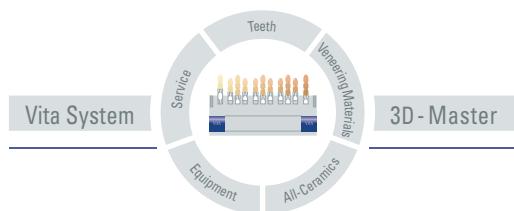
The new press ceramic VITA PM 9 was developed on the basis of clinically proven VITA VM 9 and is ideally suited for overpressing ZrO_2 substructures, e.g. such as VITA In-Ceram YZ. In addition to this, the restorations can be individualized perfectly with the veneering ceramic VITA VM 9 or with the VITA AKZENT Stains and VITA SHADING PASTE.



All advantages at a glance

- VITA In-Ceram substructure ceramics allow the simple and quick manufacture of perfectly fitting, esthetically elegant, high strength all-ceramic substructures for every indication and working technique.
- VITA In-Ceram can be cemented following the accustomed procedure in the same way as the VMK technique.
- VITA In-Ceram is clinically established – with over 16 million restorations since 1989.
- Shade accuracy through individual substructure shading and the VITA SYSTEM 3D-MASTER.
- The natural fluorescence and translucency of the VITA VM Veneering Ceramics and the VITA PM Press Ceramic guarantee outstanding esthetic results.
- The compact assortment of additional fluorescent and opalescent porcelains permits a high quality, yet rational assortment.

With the unique VITA SYSTEM 3D-MASTER all natural tooth shades are systematically determined and completely reproduced.



These products have been developed for use in dentistry and should always be used in accordance with the user instructions. The images and details here are for informational purposes only. They are not intended as a specification and are not binding. Date of issue of these 06-07

VITA Zahnfabrik is certified according to the Medical Device Directive and the following products bear the CE mark **CE 0124**:

VITA In-Ceram® SPINELL
VITA In-Ceram® ALUMINA
VITA In-Ceram® ZIRCONIA
VITA In-Ceram® AL
VITA In-Ceram® YZ
VITA VM® 7
VITA VM® 9
VITA PM® 9

US 5498157 A
AU 659964 B2
EP 0591958 B1

VITA