MIMICKING NATURE – **VISALYS® BIO**CERAMIC BLOCK

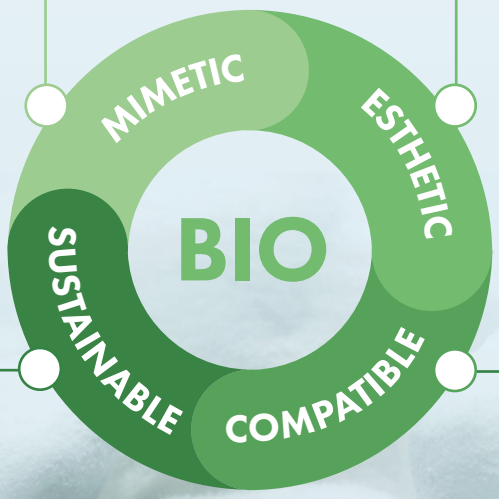
BIOCERAMIC CAD/CAM BLOCKS

BIO MIMETIC

Inspired by the natural properties of dentin and enamel the material is stable like enamel and flexible like dentin.

BIO ESTHETIC

The **VISALYS® BIO**CERAMIC BLOCK has the esthetic that blends perfectly into the natural tooth esthetics. Its translucency and light refraction are excellent.



BIO SUSTAINABLE

Driven by the desire for minimally invasive dental treatments the homogenous structure of the material enables dentist to mill with a wall thickness of only 0.3 - 0.5 mm!

BIO COMPATIBLE

The **VISALYS® BIO**CERAMIC BLOCK is bio compatible because the material is BPA-free.

www.kettenbach-dental.com/bioceramic

Strong in Prevention – Digital Restoration – Restoration – Impression.

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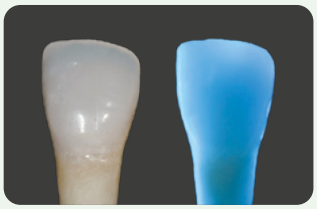
THE BLOCK THAT MAKES IT POSSIBLE

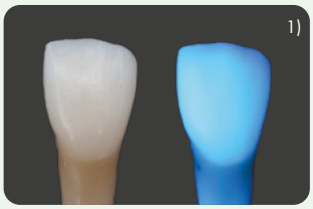
Inspired by **NATURE**, the material combines best properties of three established CAD/CAM materials:

1. Esthetic properties of glass ceramics through a single glass phase composition
2. Compressive strength of hybrid ceramics due to aluminum oxide
3. Flexibility, chipping resistance and easy processing due to resin content

Due to its homogeneous material structure, the **VISALYS® BIO**CERAMIC BLOCK has an attractive translucency/opalescence and fluorescence with natural light reflections. A short polishing step is sufficient to achieve a high-gloss surface.

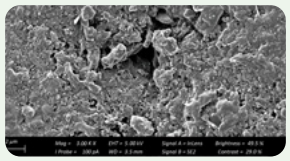


Translucency/opalescence and fluorescence of a natural tooth

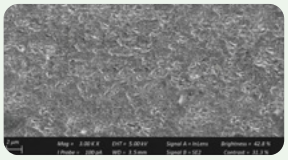


Remarkably natural translucency/opalescence and fluorescence of **VISALYS® BIO**CERAMIC BLOCK 1)

The **VISALYS® BIO**CERAMIC BLOCK is a unique, optimally pre-sintered hybrid glass block, characterized by unparalleled homogeneity, which makes its positive material properties possible in the first place. The material does not require further firing and glazing.



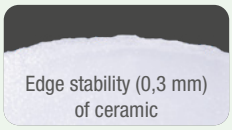
SEM image of the material structure of competitive products



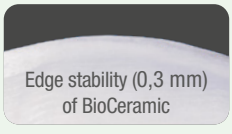
Homogeneous material structure of **VISALYS® BIO**CERAMIC BLOCK

The **VISALYS® BIO**CERAMIC BLOCK consists of a silica-based glass-ceramic phase integrated within a resin/polymer matrix giving it a strength comparable to lithium disilicate, while retaining dentin-like elasticity. This supports tooth-like behaviour under chewing forces, with fracture resistance, edge stability and friendly wear characteristics.

Chemical substances	Result 2) (in wt%)
Glass: Silica ceramic	72.97
Fluoride	0.83
Zinc oxide	1.40
Aluminium oxide	9.80
Polymer network	14.00
Additives, pigments, catalysts	1.00



Edge stability (0,3 mm) of ceramic



Edge stability (0,3 mm) of BioCeramic

1) The image shows a **VISALYS®** BIOCERAMIC Chroma crown in shade A1.
2) Source: Selquet Testing And Research Laboratory Private Limited

MORE INFORMATION

PRODUCT RANGE

Kettenbach GmbH & Co. KG
Im Heerfeld 7 · 35713 Eschenburg · Germany
Tel. +49 (0)2774 7050 · info@kettenbach.com
www.kettenbach-dental.com
Strong in Prevention – Digital Restoration – Restoration – Impression.

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