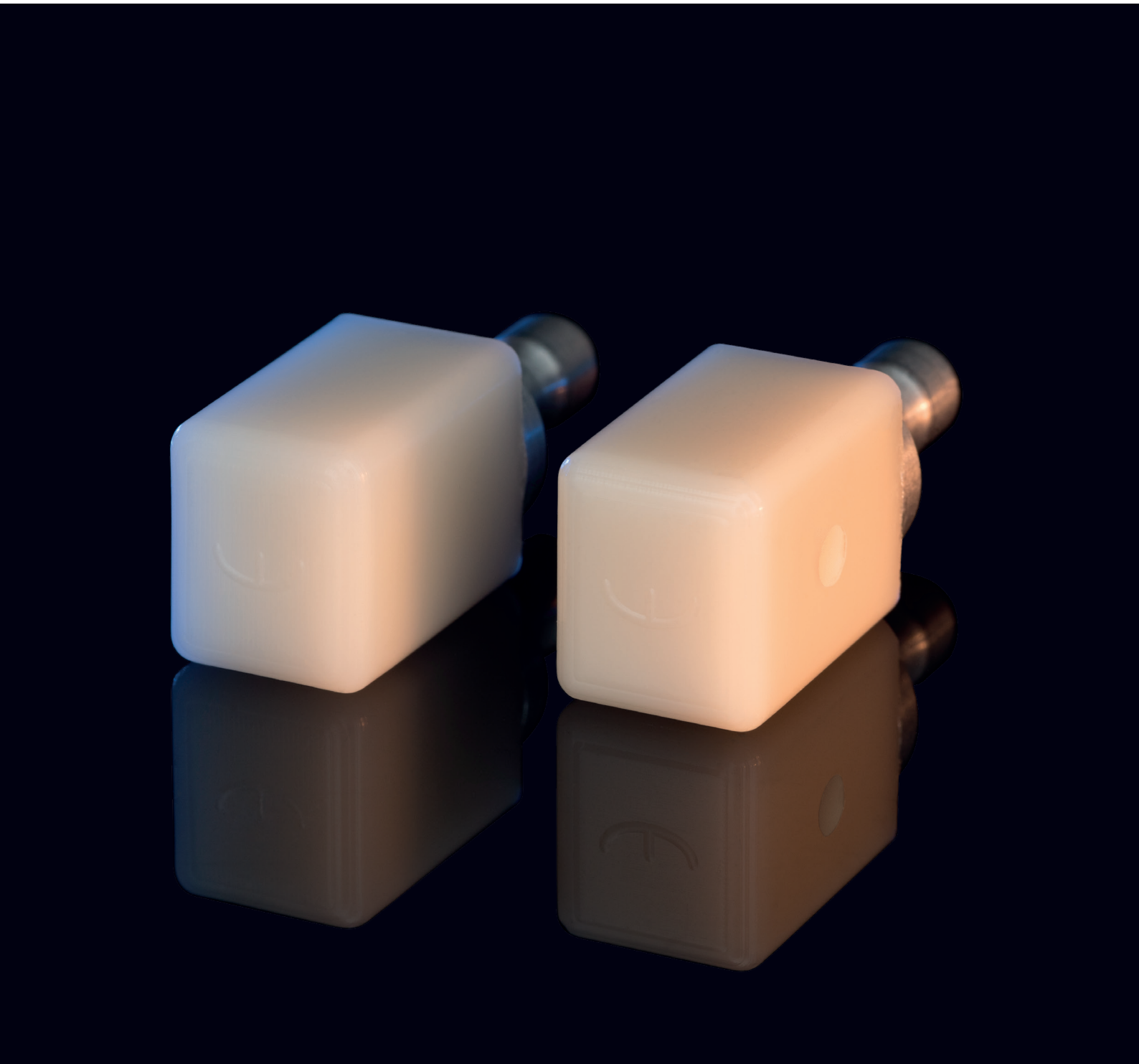
edelweiss
DENTISTRY

# edelweiss CAD/CAM BLOCK
## T-BLOCK/C-BLOCK/i-BLOCK

*Explore a single glass-phase embedded in a hybrid matrix developed by the patented edelweiss laser sintering process*

**Minimally Invasive** **Bio Esthetic** **Bio Functional**



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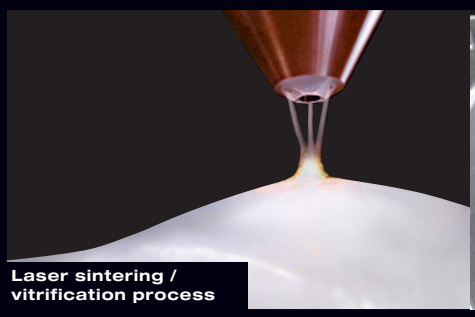
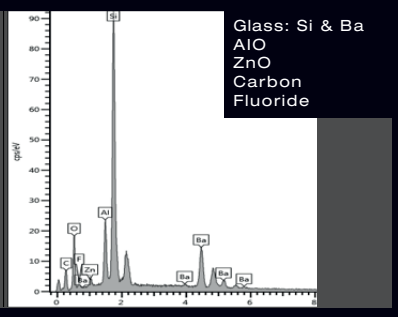
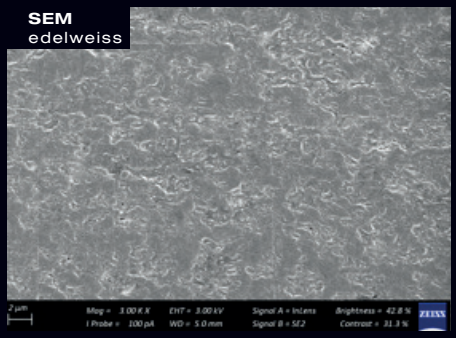
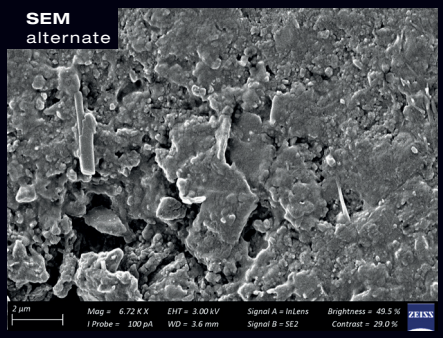

Laser sintering / vitrification process

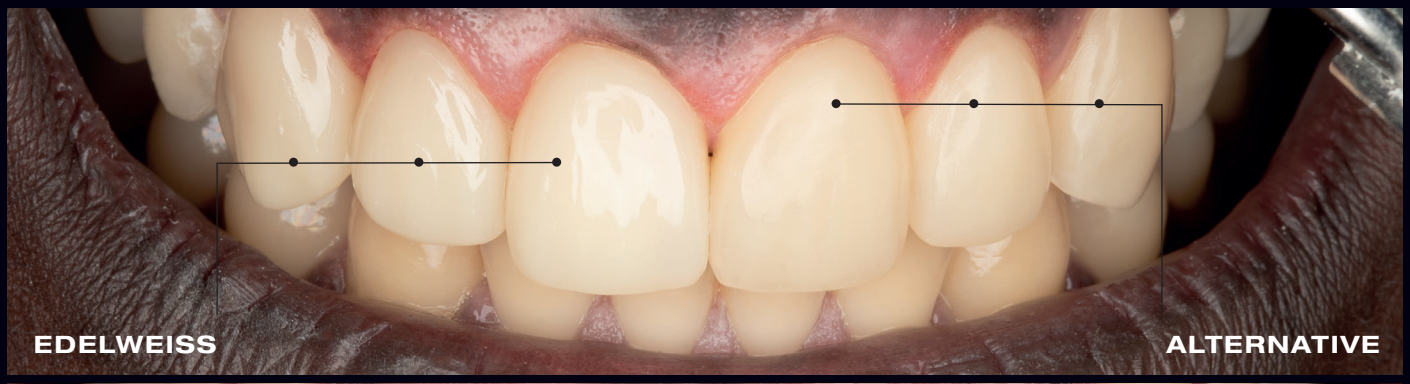




**Dr. Marco Tudts**
DDS, MScD

***"The difference lies in the high similarity with nature."***




### ADVANTAGES

- *Ultrafine sintered glass microstructure combines high strength with permanent high gloss*
- *Shorter milling time*
- *Kinder to the milling burs*
- *No additional firing required, simply polish and cement*
- *Simple cementation procedure with proven perfect seal*
- *Cost saving, faster processing time reduces chairside time*
- *Biomechanical and biocompatible*
- *Esthetically superior, life-like appearance*
- *Restoration can be easily finetuned or repared by the dentist*

### SPLIT MOUTH CLINICAL STUDY

After 4 weeks: edelweiss VENEERs maintain its original gloss and anatomy. Alternate veneers look dull and start to chip, with loss of its surface texture. Scratches appear on the surface of the alternate veneers as a result of tooth brush abrasion while the edelweiss VENEERs has its original shine.

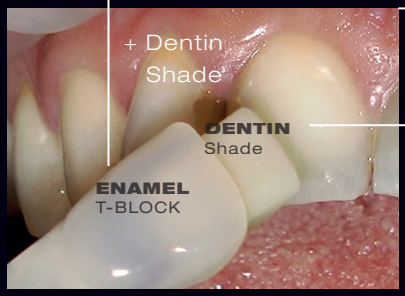
**T-BLOCK**
Translucent Enamel

**i-BLOCK** Implant
Translucent Enamel & Chroma

**C-BLOCK**
Chroma

A0 A1 A2 A3

Enamel




Enamel +A0 Dentin

Enamel +A1 Dentin

Enamel +A2 Dentin

Enamel +A3 Dentin

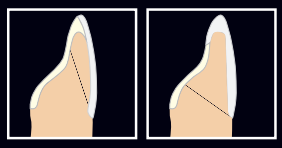
## ONLY BLOCK ON THE MARKET WITH A SOLID GLASS PHASE

## KEY FEATURES

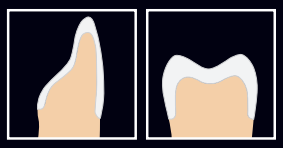
- *Glass as a single phase for esthetics*
- *Silica glass plus Aluminium oxide for compressive strength*
- *Hybrid matrix for elasticity*
- *ZnO and $F^-$ for biocompatibility*

## INDICATIONS

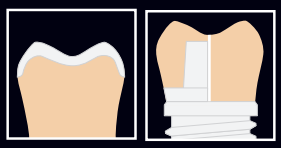
THIN VENEERS / VENEERS



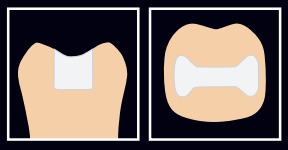
ANTERIOR / POSTERIOR CROWNS



OCCLUSAL VENEERS IMPLANT CROWNS



INLAYS



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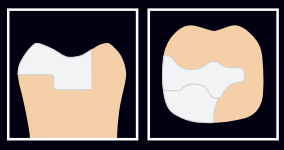
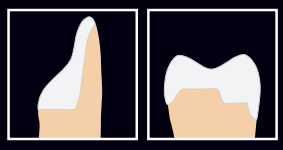


PARTIAL CROWNS



| CAD/CAM BLOCK | Manufacturing Process | Flexural Strength Biaxial | Flexural Strength Three Point | Compressive Strength | Flexural Modulus | Surface Hardness |
|---|---|---|---|---|---|---|
| Vita Enamic | Dispersed, chemical cured ceramic fillers | n/a | 155 MPa | n/a | 30 GPa | n/a |
| Lava Ultimate | Chemical cured ceramic fillers (methcrylate based) | n/a | 204 MPa | 383 MPa | 12.8 GPa | n/a |
| BRILLIANT Crios | Chemical cured ceramic fillers (methcrylate based) | 262 MPa | 198 MPa | 426 MPa | 10.3 GPa | n/a |
| Shofu HC | Chemical cured ceramic fillers (methcrylate based) | n/a | 191 MPa | 472 MPa | 9.6 GPa | 66 HV |
| Tetric CAD | Chemical cured ceramic fillers (methcrylate based) | 273.8 MPa | n/a | n/a | 10.2 GPa | n/a |
| Cerasmart | Dispersed, chemical cured ceramic fillers | 246 MPa | n/a | n/a | 9.6 GPa | n/a |
| edelweiss * | Laser cured and sintered glass phase | 320 MPa | 200 MPa | 550 MPa | 20 GPa | 100 HV |

** edelweiss internal data (ISO 4049)*
*Source: Technical data from manufacturer`s documentation.*
*Registered trademarks of VITA Zahnfabrik GmbH & Co. KG, Coltène AG, Ivoclar Vivadent AG, Shofu Dental Corporation, 3M Deutschland GmbH, GC Europe N.V.*

## PATIENT CASES

### Bruxism / C-BLOCK

YESTER**DAY**

TO**DAY**

### VENEER / T-BLOCK

YESTER**DAY**

TO**DAY**

### Implant / i-BLOCK

YESTER**DAY**

TO**DAY**

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