Z-CAD® One4All - The Flexible One

45% translucency combined with high flexural. Strength Adaption in CAD/CAM. For all anterior and posterior restorations.

Z-CAD® One4All

Here the name stands for itself. This multi purpose biocompatible material fulfills highest esthetic requirements in the anterior and posterior regions for 1-16 unit restorations.

Stay flexible, one disc offering all solutions. Crowns, partial crowns, veneers, inlays, onlays and bridges are indicated with this material. Bar constructions, supra structures and hybrid dentures, the choice is tremendous, to mill in one process.

Screw or cement retained, your restoration will fulfill all your needs. The finished Z-CAD® One4All material can be finally inserted in the mouth as monolithic or veneered restoration.

Optionally you can individualize the substructures with equivalent veneering materials. Alternatively, Zirconia press-ceramic can be utilized.

www.metoxit.com
The Swiss Pioneer of Dental Zirconia
#metoxit
**Z-CAD® One4All**

The Flexible One

Is a high-performance zirconia which meets the ISO 6872:2019 standard class 5, it is available in white, three bleach shades, or all 16 A1-D4 dentin colors, according to the *Vita classical A1-D4 color system. Typical strength of more than 1000 MPa (biaxial measurement). Translucency of 45%. The flexibel solution for daily business in the dental laboratory. For customization of the white substructures we recommend Z-CAD® Surface liquid. This is extremely wellsuited for dipping or paint-on methods.

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**Metoxit Z-CAD® One4All**

pre colored zirconia blanks

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Geometry Ø 98.5mm *

*Additional shapes and sizes (e.g. cylindrical or Ø 95mm) on request*
**Metoxit Z-CAD® One4All**  
pre colored zirconia blanks

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*Additional shapes and sizes  
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# Metoxit Z-CAD® One4All

**pre colored zirconia blanks**

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<td>411409</td>
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<td>411917</td>
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<tr>
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<td>Z-CAD One4All 98.5x20mm D4</td>
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<tr>
<td>411919</td>
<td>Z-CAD One4All 98.5x30mm D4</td>
<td></td>
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</tbody>
</table>

*Additional shapes and sizes (e.g. cylindrical or Ø 95mm) on request

---

# Metoxit Z-CAD® One4All

**white zirconia blanks**

<table>
<thead>
<tr>
<th>Art. Nr.</th>
<th>Product One4All white</th>
<th>Geometry Ø 98.5mm*</th>
</tr>
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<tbody>
<tr>
<td>409714</td>
<td>Z-CAD One4All 98.5x10mm white</td>
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<tr>
<td>409715</td>
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<tr>
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</tr>
<tr>
<td>409718</td>
<td>Z-CAD One4All 98.5x18mm white</td>
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<td>409719</td>
<td>Z-CAD One4All 98.5x20mm white</td>
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<td>409720</td>
<td>Z-CAD One4All 98.5x22mm white</td>
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<tr>
<td>409721</td>
<td>Z-CAD One4All 98.5x25mm white</td>
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<tr>
<td>411920</td>
<td>Z-CAD One4All 98.5x30mm white</td>
<td></td>
</tr>
</tbody>
</table>

---

**SWISS MADE**

Z-CAD® One4All The Flexible One
Translucency (1mm, D65) = 45%
ISO 6872:2019 Class 5
Z-CAD® Surface liquid

These ready to use, water soluble, infiltration liquids are specifically produced, to color the Metoxit AG white zirconia substructures. Regardless if dipping or paint-on methods are applied the coloring liquids emerge into the surface of unsintered substructures.

### Z-CAD® Surface liquid dentin

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Product</th>
<th>Surface liquid A1-D4</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>411976</td>
<td>Z-CAD Surface liquid A1</td>
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<td>100 ml</td>
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<tr>
<td>411977</td>
<td>Z-CAD Surface liquid A2</td>
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<td>100 ml</td>
</tr>
<tr>
<td>411978</td>
<td>Z-CAD Surface liquid A3</td>
<td></td>
<td>100 ml</td>
</tr>
<tr>
<td>411979</td>
<td>Z-CAD Surface liquid A3.5</td>
<td></td>
<td>100 ml</td>
</tr>
<tr>
<td>411980</td>
<td>Z-CAD Surface liquid A4</td>
<td></td>
<td>100 ml</td>
</tr>
<tr>
<td>411981</td>
<td>Z-CAD Surface liquid B1</td>
<td></td>
<td>100 ml</td>
</tr>
<tr>
<td>411982</td>
<td>Z-CAD Surface liquid B2</td>
<td></td>
<td>100 ml</td>
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<td>411983</td>
<td>Z-CAD Surface liquid B3</td>
<td></td>
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<td>411984</td>
<td>Z-CAD Surface liquid B4</td>
<td></td>
<td>100 ml</td>
</tr>
<tr>
<td>411985</td>
<td>Z-CAD Surface liquid C1</td>
<td></td>
<td>100 ml</td>
</tr>
<tr>
<td>411986</td>
<td>Z-CAD Surface liquid C2</td>
<td></td>
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<td>Z-CAD Surface liquid C3</td>
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<td>411989</td>
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<td></td>
<td>100 ml</td>
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<tr>
<td>411990</td>
<td>Z-CAD Surface liquid D2</td>
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<td>412002</td>
<td>Z-CAD Surface liquid D3</td>
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<tr>
<td>411991</td>
<td>Z-CAD Surface liquid D4</td>
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<td>100 ml</td>
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</table>

### Z-CAD® Surface liquid effect

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Product</th>
<th>Surface liquid Special</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>411992</td>
<td>Z-CAD Surface liquid blue1</td>
<td></td>
<td>100 ml</td>
</tr>
<tr>
<td>411993</td>
<td>Z-CAD Surface liquid blue2</td>
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<td>100 ml</td>
</tr>
<tr>
<td>411994</td>
<td>Z-CAD Surface liquid grey1</td>
<td></td>
<td>100 ml</td>
</tr>
<tr>
<td>411995</td>
<td>Z-CAD Surface liquid grey2</td>
<td></td>
<td>100 ml</td>
</tr>
<tr>
<td>411996</td>
<td>Z-CAD Surface liquid yellow</td>
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<td>100 ml</td>
</tr>
<tr>
<td>411997</td>
<td>Z-CAD Surface liquid orange</td>
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<td>100 ml</td>
</tr>
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<td>411998</td>
<td>Z-CAD Surface liquid brown</td>
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<td>100 ml</td>
</tr>
<tr>
<td>411999</td>
<td>Z-CAD Surface liquid pink</td>
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<td>100 ml</td>
</tr>
</tbody>
</table>

This perfectly tuned system of Z-CAD® Surface liquids offers easy handling and a high reproducibility for to be colored restorations.

The Z-CAD® Surface liquid Set is comprised of the 16 dentin colors, according to the *Vita classical A1-D4 color system.

We also offer a Z-CAD® Surface liquid “effect set” which is comprised of eight colors for individualization.

### Z-CAD® Surface liquid sets

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Product</th>
<th>Surface liquid set</th>
<th>Content</th>
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<tbody>
<tr>
<td>412000</td>
<td>Z-CAD Surface liquid dentin set</td>
<td></td>
<td>16 x 100 ml</td>
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<tr>
<td>412001</td>
<td>Z-CAD Surface liquid effect set</td>
<td></td>
<td>8 x 100 ml</td>
</tr>
</tbody>
</table>

*VITA classical A1 - D4® is a registered trademark of VITA Zahnfabrik H. Rauter GmbH & Co. KG in Bad Säckingen.
# Z-CAD® Materials

<table>
<thead>
<tr>
<th>Chemical Composition</th>
<th>Units</th>
<th>Z-CAD® HD</th>
<th>Z-CAD® HTL</th>
<th>Z-CAD® One4All</th>
<th>Z-CAD® smile</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZrO₂ + HfO₂ + Y₂O₃</td>
<td>wt%</td>
<td>&gt; 99.5</td>
<td>&gt; 99.5</td>
<td>&gt; 99.5</td>
<td>&gt; 99.5</td>
</tr>
<tr>
<td>Y₂O₃</td>
<td>wt%</td>
<td>5.2</td>
<td>5.2</td>
<td>6.9</td>
<td>9.3</td>
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<tr>
<td>Al₂O₃</td>
<td>wt%</td>
<td>0.25</td>
<td>0.05</td>
<td>0.05</td>
<td>0.05</td>
</tr>
<tr>
<td>Sum of all other oxides</td>
<td>wt%</td>
<td>≤ 0.5</td>
<td>≤ 0.5</td>
<td>≤ 0.5</td>
<td>≤ 0.5</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Properties</th>
<th></th>
<th>Z-CAD® HD</th>
<th>Z-CAD® HTL</th>
<th>Z-CAD® One4All</th>
<th>Z-CAD® smile</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>g/cm³</td>
<td>6.08</td>
<td>6.08</td>
<td>6.06</td>
<td>6.04</td>
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<tr>
<td>Bending strength (biaxial)</td>
<td>MPa</td>
<td>&gt; 1100</td>
<td>&gt; 1100</td>
<td>&gt; 1000</td>
<td>&gt; 610</td>
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<tr>
<td>Grain size</td>
<td>µm</td>
<td>&lt; 0.4</td>
<td>&lt; 0.4</td>
<td>&lt; 0.5</td>
<td>&lt; 0.6</td>
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<tr>
<td>Fracture Toughness K_{Ic}</td>
<td>MPa√m</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>3.5</td>
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<tr>
<td>Hardness HV_{10}</td>
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<td>1250</td>
<td>1250</td>
<td>1250</td>
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<tr>
<td>Translucency (1mm, D65)</td>
<td>%</td>
<td>35</td>
<td>41</td>
<td>45</td>
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<td>Coefficient of thermal expansion (CTE)</td>
<td>10^-6/K</td>
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<td>11.2</td>
<td>10.8</td>
<td>10.6</td>
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<tr>
<td>Thermal conductivity</td>
<td>W/mK</td>
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<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
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<tr>
<td>Solubility (acetic acid)</td>
<td>µg/cm²</td>
<td>≤ 100</td>
<td>≤ 100</td>
<td>≤ 100</td>
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<td>Radioactivity</td>
<td>Bq/kg</td>
<td>≤ 200</td>
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<table>
<thead>
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<th>Indications</th>
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<th>bar constructions, discoloration, abutments, frames...</th>
<th>bar constructions, Suprastructures, frames, bridges...</th>
<th>inlay, onlay, veneer, crowns, bridges...</th>
<th>inlay, onlay, veneer, crowns, 3-unit bridges...</th>
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</table>

<table>
<thead>
<tr>
<th>Normative specification</th>
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<th>dental restorations according to ISO 6872:2019 class 5</th>
<th>dental restorations according to ISO 6872:2019 class 5</th>
<th>dental restorations according to ISO 6872:2019 class 5</th>
<th>dental restorations according to ISO 6872:2019 class 4</th>
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</table>

All information and data correspond to the present state of our knowledge concerning properties and applications. For more specific product information, see our instructions for use. If you do not comply with the instructions for use no guarantee for the specified material properties is taken.