Quick guide for n!ce® restorations

Prepare the tooth, digitize and design the desired restoration as usual.

**POLISH ONLY**

Mill the restoration with the n!ce® dedicated program of your CADCAM system. Smooth out the attachment point with standard grinding tools for lithium-disilicic glass-ceramic. Try-in the restoration, check and adjust the contact points if required.

Simply polish with a standard polishing set for lithium-disilicate glass-ceramic (or use a polishing paste with a brush wheel) to achieve a natural high gloss finish. Clean the n!ce® restoration in a ultrasonic water bath or with a steam jet.

Condition the n!ce® restoration (etch the bonding surface with 5% hydrofluoric acid gel for 20 seconds; and silanize the bonding surface). Clean and condition the prepared tooth and simply seat the n!ce® milled restoration with adhesive cement system for lithium-disilicate glass-ceramic.

**STAIN&GLAZE**

Mill the restoration with the n!ce® dedicated program of your CADCAM system. Smooth out the attachment point with standard grinding tools for lithium-disilicate glass-ceramic. Try-in the restoration, check and adjust the contact points if required.

Clean the n!ce® restoration in a ultrasonic water bath or with a steam jet. Stain & glaze by applying individual stains for more pronounced characterization followed by glaze. Place the n!ce® restoration in the centre of the firing tray on a firing cotton. Conduct the firing as recommended (see recommended heating profile).

Condition the n!ce® restoration (etch the bonding surface with 5% hydrofluoric acid gel for 20 seconds; and silanize the bonding surface). Clean and condition the prepared tooth and simply seat the n!ce® milled restoration with adhesive cement system for lithium-disilicate glass-ceramic.

**n!ce® restoration guidelines**

n!ce® is indicated for single tooth restoration and is intended to restore natural teeth or to be placed on top of abutments.

- The preparation must not have angles or sharp edges
- The shoulder preparation must have rounded inner edges and/or chamfer
- The static and dynamic antagonist contacts should be taken into consideration and the preparation margin should not be located on the centric antagonist contacts

**n!ce® minimum restoration thickness guidelines**

- **Inlay**: ≥ 1.0 mm
- **Onlay**: ≥ 1.0 mm
- **Veneer**: ≥ 0.6 mm
- **Partial Crown**: ≥ 1.0 mm
- **Crown**: ≥ 1.0 mm
n!ce® heating profile

After stain & glaze

n!ce® can be stained and glazed if a more pronounced characterization is wished.

Please ensure the following:
- Only use stain and glaze material compatible with a CTE value of 7.1 x 10^-6 K^-1.
  Possible glaze is, for example:
  - The VITA AKZENT® Plus Glaze.
  - The GC Initial® IQ, LP NF glaze paste which must be used with the GC Initial® IQ, LP NF, Refresh Liquid. Only very thin glaze layer must be applied.
- Only conduct the firing once the n!ce® restoration has been cleaned in water by ultrasound, or with steam.

We recommend following heating profile (no vacuum required):

<table>
<thead>
<tr>
<th>Method</th>
<th>Start temperature</th>
<th>Heating time (closing time)</th>
<th>Heating rate (Temp.raise)</th>
<th>End temp. (firing temp.)</th>
<th>Holding time</th>
<th>Cooling temp.</th>
<th>Cooling rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>VITA® AKZENT® Plus glaze</td>
<td>400 °C</td>
<td>02:00 mm:ss</td>
<td>60 °C/ min</td>
<td>800 °C</td>
<td>01:00 mm:ss</td>
<td>400 °C</td>
<td>25 °C/ min</td>
</tr>
<tr>
<td>GC Initial® IQ</td>
<td>400 °C</td>
<td>02:00 mm:ss</td>
<td>60 °C/ min</td>
<td>750 °C</td>
<td>01:00 mm:ss</td>
<td>400 °C</td>
<td>25 °C/ min</td>
</tr>
</tbody>
</table>

- The firing temperature must not exceed 820°C.
- Utilizing a slow cooling rate is important to avoid color deviations caused by the cooling-down process.
- Utilizing a fast cooling rate increases the translucency of the material.

n!ce® sterilization parameters

n!ce® restorations, especially crowns used in combination with Ti-Bases, can be sterilized under following parameters:

<table>
<thead>
<tr>
<th>Method</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autoclave, moist heat</td>
<td>132°C (270°F), for 3 minutes</td>
</tr>
<tr>
<td>Fractionated vacuum</td>
<td></td>
</tr>
</tbody>
</table>

Turn time spent milling into time spent smiling.

Note:
- Observe the n!ce® minimum thicknesses guidelines
- Do not blast the restoration with Al₂O₃ or glass polishing beads

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REFERENCES
1. n!ce® can also be milled with the lithium-disilicate milling program.
2. Ideally use water-cooled instruments, grind only at low speed and slight pressure to prevent delamination and chipping at the edges.
3. For polishing the occlusal surfaces, use preferably diamond polishing tools for lithium-disilicate glass-ceramic.
4. Crowns can also be seated using self-adhesive cement.
5. Alternatively, use a firing pin with an auxiliary firing paste.