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 program¹ of your CAD/CAM system. Smooth out the attachment point with standard grinding tools for lithium-disilicate glass-ceramic². 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 finish³.

Clean the n!ce® restoration in an 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 seat the n!ce® milled restoration with adhesive⁴ cement system for lithium-disilicate glass-ceramic.

**STAIN&GLAZE**

Mill the restoration with the n!ce® dedicated program¹ of your CAD/CAM system. Smooth out the attachment point with standard grinding tools for lithium-disilicate glass-ceramic². Try-in the restoration, check and adjust the contact points if required.

Clean the n!ce® restoration in an ultrasonic water bath or with a steam jet. Stain & glaze by applying individual stains for more characterization followed by glaze. Place the n!ce® restoration in the center of the firing tray on a firing cotton or use a firing pin with an auxiliary firing paste. Fire 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 seat the n!ce® milled restoration with adhesive⁴ cement system for lithium-disilicate glass-ceramic.

**n!ce® restoration guidelines**

n!ce® is indicated for single tooth restorations 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

- ≥ 1.0 mm
- ≥ 0.6 mm
- ≥ 1.0 mm
- ≥ 1.0 mm
- ≥ 1.0 mm
- ≥ 1.0 mm

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n!ce® firing process

After stain & glaze

n!ce® can be stained and glazed if additional characterization is required.

Please ensure the following:
- Only use stain and glaze material compatible with a CTE value of $7.1 \times 10^{-6} \text{ K}^{-1}$
- Only fire once the n!ce® restoration has been cleaned in water by ultrasound, or with steam

We recommend the following firing process (no vacuum required):

<table>
<thead>
<tr>
<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>°C</td>
<td>mm:ss</td>
<td>°C/min</td>
<td>°C</td>
<td>mm:ss</td>
<td>°C</td>
<td>°C/min</td>
</tr>
<tr>
<td>400</td>
<td>02:00</td>
<td>60</td>
<td>770–800</td>
<td>01:00</td>
<td>400</td>
<td>25</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 cool down process.
- Utilizing a fast cooling rate increases the translucency of the material.

n!ce® sterilization parameters

n!ce® restorations can be sterilized under following parameters:

<table>
<thead>
<tr>
<th>Method</th>
<th>Condition</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autoclave, moist heat, Fractionated vacuum</td>
<td>132 °C (270 °F)</td>
<td>4 minutes; 30 minute dry time</td>
</tr>
<tr>
<td>Autoclave, moist heat, Gravity displacement</td>
<td>132 °C (270 °F)</td>
<td>15 minutes; 30 minute dry time</td>
</tr>
</tbody>
</table>

From milling to n!ce smiles
In just a few steps.

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