Straumann® n!ce®

Turn time spent milling into time spent smiling.
Prepare the tooth, digitize and design the desired restoration as usual.

Mill the restoration with the n!ce® dedicated program of your CAD/CAM 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.

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 second; 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.

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

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n!ce® processing – stain & glaze

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

1. **MILL**
   - Mill the restoration with the n!ce® dedicated program of your CAD/CAM 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.

2. **STAIN & GLAZE**
   - Clean the n!ce® restoration in an 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).

3. **SEAT**
   - 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.

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

n!ce® tooth preparation guidelines

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

n!ce® minimum restoration thickness guidelines

Inlay

Onlay

≥ 1.0 mm

≥ 1.0 mm

≥ 1.0 mm

Veneer

Particial Crown

Crown

≥ 0.6 mm

≥ 1.0 mm

≥ 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 $7.1 \times 10^{-6} \text{ K}^{-1}$.
  Possible glazes, 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>Start temperature</th>
<th>Heating time (closing time)</th>
<th>Heating rate (Temp. rise)</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>VITA® Akzent® Plus glaze</td>
<td>400</td>
<td>02:00</td>
<td>60</td>
<td>800</td>
<td>01:00</td>
<td>400</td>
</tr>
<tr>
<td>GC Initial® IQ</td>
<td>400</td>
<td>02:00</td>
<td>60</td>
<td>750</td>
<td>01:00</td>
<td>400</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>

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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.