Indications

- Inlays
- Onlays
- Veneers
- Anterior Single Crowns
- Posterior Single Crowns
- 3-Unit Bridge
  * up to the second Premolar

Product Line-up

<table>
<thead>
<tr>
<th>Amber® Mill</th>
<th>Dimensions (mm)</th>
<th>pcs / Pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>C12</td>
<td>10 x 12 x 15</td>
<td>5 blocks</td>
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<tr>
<td>C14</td>
<td>12 x 14 x 18</td>
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<tr>
<td>C32</td>
<td>14 x 14 x 32</td>
<td>3 blocks</td>
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<td>C40</td>
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<td>P9806</td>
<td>Ø98 x 6T</td>
<td>1 disk</td>
</tr>
<tr>
<td>P9808</td>
<td>Ø98 x 8T</td>
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<td>P9810</td>
<td>Ø98 x 10T</td>
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<td>P9812</td>
<td>Ø98 x 12T</td>
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</tr>
<tr>
<td>P9814</td>
<td>Ø98 x 14T</td>
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New Frontier of Lithium Disilicate CAD/CAM Blocks

Amber® Mill
Amber® Mill is the first machinable dental glass-ceramic blocks made of lithium disilicate. Its reinforced mechanical properties and aesthetic values with qualified machinability are greatly advantageous for patients and clinics.

Denser and more crosslinked crystal structure of Amber® Mill results in superior physical properties. Biaxial flexure strength of Amber® Mill is about 10% higher than comparative product after it is fully crystallized.
Outstanding machinability of Amber® Mill is evidently affirmative when checking the edges of the milled restorations. Highly stable edges with less chipping occurrence prove that Amber® Mill is the best machinable lithium disilicate block for CAD/CAM system.

High Edge Stability

Restorations with Amber® Mill make vivid, definite and substantial visual difference in their outcome. Resulting from the excellent opalescence and fluorescence of Amber® Mill, the restorations even without staining displays natural color continuum from cervical to incisal/occlusal whereas the comparative products are in dull and monolithic chroma.

Multi-chromatic Gradation Effect

Glazed Crowns - No Stain Applied
Natural Opalescence & Fluorescence

All natural teeth covered by the enamel present opalescence—they seem more blueish when viewed under reflected light and more yellowish when viewed in transmitted light. Amber® Mill demonstrates the opalescent feature of natural teeth the most successful way. In addition, Amber® Mill shows the closest fluorescence to that of natural teeth.

Comparison of Opalescence

Excellent Fluorescence

Amber® Mill W2
Amber® Mill W1
Competitor

Natural Tooth
As all physical properties and aesthetic values are combined in a well-balanced way, final restoration work using Amber® Mill shows off its high level of stability and naturalness when it is actually applied in mouth.

Aesthetics Proven by Clinical Case

#25 crown - stain & glaze over Amber® Mill LT A3

Courtesy of CDT. Won Pil Jang and Dr. Hee-Kyong Lee, Seoul, Korea
Freedom of Translucency

Recommended Translucency Heat-treatment Schedule

It is possible to differentiate translucency with a single block of Amber® Mill. Just decide what shade you will use, then choose the translucency heat-treatment temperature according to your targeted translucency. This will enhance the efficiency in work process and inventory management for CAD/CAM milling blocks.

VITA VACUMAT

<table>
<thead>
<tr>
<th>Predry °C</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th>VAC min.</th>
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<td>HT 6.50</td>
<td>60</td>
<td>HT 815</td>
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<td></td>
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<tr>
<td></td>
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<td>MO 7.40</td>
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<td>MO 860</td>
<td></td>
<td>MO 22.40</td>
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</tr>
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* The firing chamber must not be opened during long term cooling.

1) VACUMAT is a registered trademark of VITA.

PROGRAMAT IVOCLAR VIVADENT

<table>
<thead>
<tr>
<th>B °C</th>
<th>S min.</th>
<th>t °C/min.</th>
<th>T °C</th>
<th>H min.</th>
<th>VAC. 1/ VAC. 2 °C</th>
<th>L °C</th>
<th>tL*</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>3.00</td>
<td>60</td>
<td>HT 815</td>
<td>15.00</td>
<td>HT 550/815</td>
<td>690</td>
<td>0</td>
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<td></td>
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<td>MT 550/825</td>
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<td></td>
<td>LT 550/840</td>
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<td>MO 550/860</td>
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</tr>
</tbody>
</table>

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2) PROGRAMAT is a registered trademark of IVOCLAR VIVADENT.

Available Shades

- HT
- MT
- LT
- MO
Product Q&A

What is the translucency heat-treatment for?

In Amber® Mill, fine crystalline is embedded in glass matrix. When translucency heat-treatment is applied to Amber® Mill restorations, crystal size and density get increased and consequently mechanical properties get reinforced and translucency level gets altered.

What should be mainly considered for the translucency heat-treatment?

Combination of two factors—temperature and holding time—for translucency heat-treatment of Amber® Mill differentiates the resulted translucency. Based on the recommended translucency heat-treatment schedule, each user is advised to verify his or her own optimized conditions for the furnace to use. Once the optimized version is identified, you will be able to create a wide range of translucency with just one Amber® Mill block and choose the exact translucency level as targeted.

Any possibility of translucency alteration after multi-baking of veneering powder?

In addition to temperature, holding time of heat-treatment is the determinant of translucency for Amber® Mill. Even if baking temperature is higher than translucency temperature, the result may retain the same translucency as far as the holding time is short. As usual, baking time for veneering powder is about a minute long so the baking has no significant influence on the translucency of Amber® Mill framework.

Is it possible to change the translucency by re-firing?

For highly translucent restorations, it is achievable to lower their translucency by re-firing them. For example, you may apply 5 °C higher heating than normal low translucency (LT) temperature to high translucency (HT) crowns and keep the same holding time of 15 minutes so that the final crowns can be low translucent (LT).

What powders are compatible with Amber® Mill?

Amber® Mill is compatible with a wide variety of veneering powders. As to the powders for lithium disilicate, those powders with CTE (coefficient of thermal expansion) less than or equal to $10.0 \times 10^{-6}/\degree C$ are compatible. Zirconia powders with baking temperature under 850 °C are also compatible with Amber® Mill.