cara LiSi₂*
Highly aesthetic single-tooth restorations.

Giving a hand to oral health.

* cara LiSi₂ frames are made of well-proven IPS e.max® CAD blanks by Ivoclar Vivadent.
The perfect combination
cara LiSi₂* and HeraCeram Zirkonia 750

With cara LiSi₂ produced from original IPS e.max® CAD blanks from Ivoclar Vivadent, cara is expanding its material range for highly aesthetic single tooth restorations and complementing the all-ceramic product portfolio. Thanks to cara’s sophisticated and specially adapted grinding strategy, with cara LiSi₂* you receive Lithium Disilicate with the highest surface quality. The 3Shape DentalDesigner™ Software 2012 allows you to design Inlays/Onlays/Veneers and fully anatomic and cutback crowns simply and efficiently. You then receive them back from the cara Production Centre in an uncrystallised state – and can personalise them as required with HeraCeram Zirkonia 750.

Welcome to the cara Production Centre.
The cara Production Centre takes your custom design and builds the prosthetic framework structures, ranging from complex geometries with undercuts to divergent dies. The benefits are clear:

- In production, you save expensive investments in milling machines and future technology systems.
- You can take advantage of fast transfer of expertise offered by a strong partner.
- We place one of today’s most innovative production systems at your disposal

Your benefits with cara LiSi₂*:
- Strength of materials before crystallisation: 130 – 150 MPa
- Crystallisation process takes 20 – 31 min
- Without significant shrinkage 0.2 %
- Crystallisation temperature 840 – 850 °C
- During crystallisation a microstructural transformation takes place with controlled growth of Lithium Disilicate crystals
- Following crystallisation the flexural strength is 360 MPa

Finished restoration, finished with HeraCeram Zirkonia 750.

The cara LiSi₂* frameworks – delivered with connection geometry.
The connected shipping offers a range of advantages:
- Customers can process the contact surfaces themselves
- No loss of approximal contacts
- Vestibular surfaces on anterior teeth can be ground to the correct shape immediately

Indications*:
- Inlays/Onlays/Veneers
- Partial crowns
- Cutback and fully anatomic crowns in the anterior and posterior regions

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cara LiSi₂*, outstanding surface quality.

The cara grinding strategy, which has been specially developed for the framework material Lithium Disilicate, processes the part carefully and precisely in order to avoid surface defects. The outstanding surface quality of cara Lithium Disilicate* frameworks can be seen in the SEM image below. In addition, the very fine toolpaths also result in a very good fit. An unpublished in-vitro study at the University of Heidelberg commissioned by Kulzer confirms the high quality of cara LiSi₂* and HeraCeram Zirkonia 750 as a reliable and coordinated all-ceramic system.

![SEM image](image_url)

Source: Kulzer GmbH, Research & Development (Data not published)

The indication and colour mapping table.

cara LiSi₂* is available in all 16 A-D shades and a bleach shade BL3 in the "low translucency" stage. This translucency stage is ideal for all types of restoration and characterised by a perfect chameleon effect. In addition, there are also 2 opal shades available, which integrate excellently into the mouth with their natural opalescence and are thus particularly suited to minimally invasive restorations.

From a processing perspective, all restorations are generally possible with every blank. Deviations with respect to Ivoclar Vivadent’s recommended indications are based purely on different aesthetic evaluations.

<table>
<thead>
<tr>
<th>Colour mapping</th>
<th>Processing technique</th>
<th>Indications</th>
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<tbody>
<tr>
<td>Blank</td>
<td>Shades</td>
<td>Stain technique</td>
</tr>
<tr>
<td>LT (low translucency) impulse</td>
<td>16 A-D + BL3</td>
<td>*</td>
</tr>
<tr>
<td>LT</td>
<td>OP1 + OP2</td>
<td>*</td>
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### Processing options

<table>
<thead>
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<th>Option 1</th>
<th>Option 2</th>
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<tr>
<td>Crystallisation and separate stain/glaze firing</td>
<td>Cutback technique</td>
</tr>
<tr>
<td>Crystallisation firing followed by characterisation of the tooth-coloured restoration</td>
<td>HeraCeram Zirkonia 750 materials are applied to the incisal and occlusal area of the reduced cara LiSi frame and fired. This is followed by stain and glaze firing</td>
</tr>
<tr>
<td>HeraCeram Zirkonia 750 HeraCeram Stains universal</td>
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