VITA PHYSIODENS®

Designed down to the last detail to mimic nature diversity.

VITA – perfect match.
CONCEPT AND BENEFITS

VITA PHYSIODENS® are premium denture teeth with intricate, lifelike moulds and a lively play of light for harmonious integration into the remaining dentition. Discover the advantages below.
Love of detail and perfection.
DETAILED, LIFELIKE AND SIMILAR TO NATURAL ESTHETICS

What?

- VITA PHYSIODENS are natural, three-dimensional premium denture teeth made of highly resistant MRP composite material for detailed, natural dentures.

What for?

- VITA PHYSIODENS integrate harmoniously into the remainder of the natural dentition and are particularly suitable for partial and hybrid dentures.
THE ADVANTAGES

Best integration
- Good integration in the remaining natural dentition through detailed, multi-layered moulds

Lively play of light
- Lively play of light through elaborate surface texture

Reliable masking
- Reliable masking of tertiary structures via greater tooth volumes

High durability
- High durability thanks to abrasion-resistant MRP composite material
"VITA PHYSIODENS OFFERS NATURAL CONTOURS WITH DETAIL-RICH TEXTURE."

Dr. Julián Conejo, Dentist, Philadelphia, USA
AS DIVERSE AS NATURE ITSELF

VITA PHYSIODENS enables

- harmonious integration into the remainder of the natural dentition thanks to multi-layered, natural moulds

- true-to-life reproduction for a natural appearance thanks to distinctive, vital edge characteristics
“WITH VITA PHYSIODENS, I LIKE THE INDIVIDUAL CONTOUR OF THE INCISORS.”

Viktor Fürgut, Dental Technician, Ravensburg, Germany
VITA PHYSIODENS enables

- **reliable masking of secondary/tertiary structures**
  thanks to high basal tooth volumes

- **natural gingiva design**
  thanks to natural, three-dimensional cervical dimensions
VITA PHYSIODENS shows

- a lifelike play of light
  thanks to an elaborate surface texture

- natural shade gradient
  thanks to multi-layered 3D-layered structure
"THE ANATOMICAL LAYERING PROVIDES THE APPEARANCE OF A VERY NATURAL LINE OF TEETH."

Hans Jürgen Lange, Master Dental Technician, Darmstadt, Germany
VITA PHYSIODENS enables

- **simple restoration of function**
  thanks to chewing surfaces with natural morphology

- **intuitive centric finding and good occlusion**
  thanks to centric-supported occlusal design
“VITA PHYSIODENS IS BASED ON THE FUNCTIONALITY AND FORM OF NATURALLY HEALTHY TEETH.”

Dr. Eugen End, Dentist, Ravensburg, Germany
FACTS AND FEATURES

**VITA PHYSIODENS®** was developed by specialists with the greatest care and attention to detail. Learn more about the high quality manufacturing standards and durable denture materials.
VITA PHYSIODENS was jointly developed by VITA engineers and dental technicians based on the pattern of natural teeth. The highest quality and passion, as well as the best craftsmanship from southern Germany are combined in these denture teeth.

High-quality materials
For high durability
VITA PHYSIODENS are made of MRP composite (Microfiller Reinforced Polymer Matrix). The highly cross-linked polymer matrix with homogeneously distributed and polymerized silicon dioxide filling materials, ensures very good wear resistance.
3. **Manufacturing**
For outstanding prosthetics

With great attention to detail, specially trained professionals produce individual, custom-designed VITA PHYSIODENS Anterior Teeth – for natural looking prosthetics with lifelike shade and play of light.

4. **Quality assurance**
For reliable results

Each denture tooth goes through a multi-step quality control process and is carefully inspected by experienced experts – for the best quality in materials, shape and shade.
VITA PHYSIODENS

• has a Microfiller Reinforced Polymer Matrix (MRP) for long-lasting prosthetic restorations

• enables efficient grinding and polishing due to optimum material homogeneity and edge stability

MRP COMPOSITE: THE SiO₂-ENHANCED POLYMER MATRIX

PMMA pearls
Polymethylmethacrylate, proven for decades.

Silanated filler material
The SiO₂-filler improves the mechanical properties.

Cross-linked matrix without MMA
The cross-linking provides for a good bonding of all the material components.
HIGHLY RESISTANT IN THE WEAR TEST

Wear study

<table>
<thead>
<tr>
<th>VITA PHYSIODENS</th>
<th>Physiotar</th>
<th>SR</th>
<th>Mondial</th>
<th>Premium</th>
<th>Genios</th>
<th>Bioplus</th>
<th>Veracia</th>
<th>artegal</th>
<th>Crown</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFC+</td>
<td>Phonares II</td>
<td>6</td>
<td>6</td>
<td>A</td>
<td>SA</td>
<td>BXL</td>
<td>PX</td>
<td></td>
<td></td>
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</tbody>
</table>

Graphic: Average depth of the signs of wear of the abovementioned tooth lines after pin-on-block wear test in the chewing simulator with steatite balls as antagonist and eight test samples each per line.

Source: University of Regensburg, Prof. Dr. M. Rosentritt, Test Report No. 280_2, Report 11/15 ([1], see reverse side of prospectus).

VITA PHYSIODENS

- allows the expectation of good clinical results thanks to the highly resistant MRP composite material
- demonstrates the greatest wear resistance in tests of all investigated tooth lines
EXCELLENT SHADE ACCURACY TO THE SHADE GUIDE

VITA PHYSIODENS

- enables reliable shade reproduction thanks to excellent shade accuracy to the VITA shade standard
- shows the best shade match on average in the test for A1, A2 and A3 of all investigated anterior tooth lines
Shade match with VITA classical A1–D4® shade standard*

<table>
<thead>
<tr>
<th>Mean values [ΔE*ab]</th>
<th>To be matched</th>
<th>Acceptance threshold value</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.50</td>
<td>SR Vivadent DCL</td>
<td>2.80</td>
</tr>
<tr>
<td>3.30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.10</td>
<td>Bioplus</td>
<td>2.40</td>
</tr>
<tr>
<td>2.90</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.70</td>
<td>Pala Mondial 6</td>
<td>1.60</td>
</tr>
<tr>
<td>2.50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.30</td>
<td>VITA PHYSIODENS</td>
<td>1.30</td>
</tr>
<tr>
<td>2.10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.90</td>
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<td>0.50</td>
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</table>

Tooth lines

**Graphic:** Mean value of the shade correspondence/deviation of the abovementioned tooth lines to/from the VITA classical A1–D4® shade scale in shades A1, A2, and A3. The measurements were conducted on randomly selected anterior tooth sets (tooth 21, 22) with common geometry in the shades A1, A2, A3 via an electronic tooth shade meter (Shadepilot by DeguDent).

**Source:** Johannes Gutenberg University of Mainz, Dr. M.Sc. Christopher Igeli, Report 05/17 [2], see reverse side of prospectus.

**Specification of the tooth lines tested**:  
- SR Vivadent DCL; geometry: A14  
- Bioplus; geometry: L88  
- Pala Mondial 6; geometry: R455  
- VITA PHYSIODENS®; geometry: T2S

*Note: The results only allow an initial statement to be made about the trend, as shades can deviate depending on the geometry and production batch of the respective tooth line.
VITA PHYSIODENS® is available in a comprehensive range of shades and moulds. Here is an overview of recommended combinations and offered system components.
Denture teeth for detailed and lifelike prosthetics.
## SHADES AND MOULDS

**VITA PHYSIODENS® Anterior**

- **Available shades**
  - 28 x VITA SYSTEM 3D-MASTER® shades
    - 0M1, 0M3, 1M1–5M3
  - 15 x VITA classical A1–D4® shades
    - A1–D4 (without B1)

- **Available moulds/sets**
  - 21 x upper anterior tooth moulds
    - (divided into four mould groups)
  - 8 x lower anterior tooth moulds

**VITA PHYSIODENS® Posterior**

- **Available shades**
  - 27 x VITA SYSTEM 3D-MASTER® shades
    - 0M3, 1M1–5M3
  - 15 x VITA classical A1–D4® shades
    - A1–D4 (without B1)

- **Available moulds/sets**
  - 6 x upper posterior tooth moulds
  - 6 x lower posterior tooth moulds

### Upper Anteriors

<table>
<thead>
<tr>
<th>Shade</th>
<th>Image</th>
<th>Code</th>
<th>Width</th>
<th>Height</th>
<th>Length</th>
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</thead>
<tbody>
<tr>
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<td><img src="image1.png" alt="Image" /></td>
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<td>O3M</td>
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<td>O4L</td>
<td><img src="image4.png" alt="Image" /></td>
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<td><img src="image5.png" alt="Image" /></td>
<td>O5L</td>
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<td>T2S*</td>
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<td>8.8</td>
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<tr>
<td>X3L</td>
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<td>X3L</td>
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<td>X1S</td>
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<td>X1S</td>
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<td>X2S</td>
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<td>11.6</td>
<td>11.3</td>
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</table>

**Lower Anteriors**

<table>
<thead>
<tr>
<th>Shade</th>
<th>Image</th>
<th>Code</th>
<th>Width</th>
<th>Height</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1S*</td>
<td><img src="image22.png" alt="Image" /></td>
<td>L1S*</td>
<td>10.8</td>
<td>8.6</td>
<td>7.6</td>
</tr>
<tr>
<td>L2M*</td>
<td><img src="image23.png" alt="Image" /></td>
<td>L2M*</td>
<td>10.4</td>
<td>8.4</td>
<td>7.1</td>
</tr>
<tr>
<td>L3M*</td>
<td><img src="image24.png" alt="Image" /></td>
<td>L3M*</td>
<td>10.9</td>
<td>9.1</td>
<td>7.8</td>
</tr>
<tr>
<td>L4M*</td>
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<td>L4M*</td>
<td>12.7</td>
<td>9.3</td>
<td>9.7</td>
</tr>
<tr>
<td>L5M*</td>
<td><img src="image26.png" alt="Image" /></td>
<td>L5M*</td>
<td>11.4</td>
<td>10.4</td>
<td>11.1</td>
</tr>
<tr>
<td>L6L</td>
<td><img src="image27.png" alt="Image" /></td>
<td>L6L</td>
<td>12.7</td>
<td>12.2</td>
<td>12.7</td>
</tr>
<tr>
<td>L7L</td>
<td><img src="image28.png" alt="Image" /></td>
<td>L7L</td>
<td>10.4</td>
<td>11.5</td>
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<tr>
<td>L8L</td>
<td><img src="image29.png" alt="Image" /></td>
<td>L8L</td>
<td>13.0</td>
<td>12.4</td>
<td>12.7</td>
</tr>
</tbody>
</table>

### Measurements

- Width: 7.6, 8.6, 8.4, 8.7, 8.8, 8.9
- Height: 9.3, 8.7, 8.8, 9.2, 9.4
- Length: 7.8, 7.1, 7.8, 7.7, 7.7, 7.8

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* Bleached shade(s) 0M1 and 0M3 available exclusively for selected mould(s).

** Mould(s) only available in VITA SYSTEM 3D-MASTER shade(s).
The information contained in the combination table is only intended as a guide, and can vary depending on the patient’s individual situation.
ASSORTMENTS AND STORAGE

**VITA PHYSIODENS mould chart**
Handy metal case with all moulds for tooth selection:
• VITA PHYSIODENS Anterior and Posterior

**VITA PHYSIODENS tooth storage**
Posterior
• X-small*: 50 sets / 400 posteriors
• Small*: 100 sets / 800 posteriors
• Medium*: 200 sets / 1600 posteriors
• Large*: 300 sets / 2400 posteriors

Available in VITA classical A1–D4® and VITA SYSTEM 3D-MASTER® shades.**

*) Note: You will receive the most frequently used moulds and shades with the packaged tooth storage. We are also happy to put together storage systems according to your individual specifications.

**) see available shades

SYSTEM COMPONENTS

- **Base materials**
  - Manufacturer’s recommendations

- **VITACOLL**
  - Adhesive

- **VITAVM CC**
  - Masking/Fixation

- **VITAVM LC**
  - Individualization
**BEST SOLUTIONS FOR THE TREATMENT WORKFLOW**

<table>
<thead>
<tr>
<th>Moulding/model fabrication</th>
<th>Shade determination*</th>
<th>Model analysis/mould selection</th>
<th>Wax setup</th>
<th>Bonding</th>
<th>Base fabrication</th>
<th>Finishing</th>
</tr>
</thead>
<tbody>
<tr>
<td>• For situational/functional molding, use <strong>appropriate impression trays</strong> (i.e., from VITA) and impression materials.</td>
<td>• For the shade determination of the remaining dentition, use <strong>VITA Easyshade V</strong> or a VITA shade guide.</td>
<td>• Use the <strong>VITA mould chart</strong> after the model analysis of the tooth shape(s) to select the appropriate VITA denture teeth.</td>
<td>• Use <strong>appropriate wax and processing tools</strong> for the wax setup and chewing simulation.</td>
<td>• For a secure bond of VITA denture teeth to the base materials, use the <strong>adhesive agent VITACOLL</strong>.</td>
<td>• Use the <strong>cold/hot polymerisate recommended by VITA</strong> for the fabrication of the base, e.g., using an injection or pressure-packing technique.</td>
<td>• For the fabrication, use <strong>suitable polishing</strong> instruments, and for individualization, the <strong>veneering composite VITA VM LC flow</strong>.</td>
</tr>
</tbody>
</table>

*) Visual or technical shade determination only takes place if there is any remaining natural dentition.
WE ARE HAPPY TO HELP

Hotline Sales Support
Mr. Udo Wolfner and his team (Internal Sales Department) will be glad to assist you with orders or questions about the delivery, product data and marketing materials.

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E-mail: info@vita-zahnfabrik.com

Technical Hotline
If you have technical questions concerning VITA PROSTHETIC SOLUTIONS, you can contact our technical specialists Mr. Ralf Mehlin or Mr. Daniel Schneider.

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Fax +49 (0) 7761 / 56 24 46
8:00 a.m. to 5 p.m. CET
E-mail: info@vita-zahnfabrik.com

More information about the products and processing is also available at www.vita-zahnfabrik.com
VITA PROSTHETIC SOLUTIONS –
For the best dental prosthetics: natural, reliable, rich in variation.

Best variety of shades and moulds for all cases.

Efficient CAD/CAM prosthetic for greater productivity.

Vivid play of shape and shade for natural results.

Manufacturing high-end dentures
VITA PREMIUM PROSTHETIC offers you high-value MRP-composite teeth with a naturally vivid play of shape and shade for the best, highly esthetic full, partial and implant-retained dentures.
More information about VITA PHYSIODENS is available at www.vita-zahnfabrik.com/prosthetics

1. Bibliography

1. Abrasion investigation at the University Hospital of Regensburg
   Prof. Dr.-Ing. Martin Rosentritt, Head of Research Division,
   University Hospital of Regensburg, Polyclinic for Dental Prosthetics,
   Regensburg; Report: Test Report Number 280_2, 11/15

2. Shade measurements for prosthetic teeth, University of Mainz
   Dr. M.Sc. Christopher Igiel, Research Associate,
   Johannes Gutenberg University of Mainz, Polyclinic for Prosthetics,
   Mainz; Report: 05/2017

For detailed test data, see technical and scientific documentation
for VITA denture teeth;
Download via www.vita-zahnfabrik.com/prosthetics

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Date of issue of this product information: 01.18

After the publication of these information for use any previous versions become obsolete. The current version can be found at www.vita-zahnfabrik.com

VITA Zahnfabrik has been certified in accordance with the Medical Device Directive and the following products bear the mark: €0124:
VITA PHYSIODENS®, VITACOLL®, VITAFOL® H, VITAVM® LC and VITAVM® CC

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