Ceram
The natural veneering ceramic for $\text{LS}_2$ and $\text{ZrO}_2$
Highly esthetic veneering ceramics

IPS e.max® Ceram is the fluorapatite glass-ceramic for the highly esthetic veneering and characterization of lithium disilicate glass-ceramics (LS₂) and zirconium oxide (ZrO₂).

A harmonious shade match can be achieved easily and quickly due to a standardized layering scheme and consistent shade concept. IPS e.max Ceram is characterized by excellent contouring properties, high material stability and excellent low-shrinkage firing properties. This is efficiency made easy.

Efficient handling

coordinated with lithium disilicate and zirconium oxide

Exceptional esthetics

natural play of light and shade

Utmost reliability

IPS e.max® Ceram is based on the IPS e.max all-ceramic system, which dentists, dental technicians and patients have been relying on for many years. It is therefore the product of extensive knowledge and experience and exceptional passion.

Extensive portfolio

great flexibility and versatility
When creativity knows no bounds
Versatile possibilities

Based on optimally coordinated material properties, IPS e.max Ceram offers virtually boundless possibilities for application - be it on zirconium oxide substructures, lithium disilicate substructures or refractory dies.

Coordinated CTE range

The coefficient of thermal expansion (CTE) is ideally adjusted to allow IPS e.max Ceram to be used for the veneering of both lithium disilicate and zirconium oxide frameworks.

For all veneering techniques

IPS e.max Ceram features compatibility with all veneering techniques, offering maximum flexibility and ample scope for creativity.
Following *nature’s blueprint*

The material structure of the IPS e.max Ceram veneering materials is modelled on nature, mimicking the natural tooth structure in translucency, opacity and fluorescence.
Natural **translucency** and opacity

- Incisal materials with natural translucency
- Dentin materials with an ideal degree of opacity

True-to-nature **fluorescence**

- Natural tooth structure in UV light
- Veneered crown in UV light
IPS e.max Ceram offers a comprehensive and well devised range of shades and a wide variety of additional ceramic materials, such as Margin, Impulse and Opal materials. It is therefore suitable for both standard layering methods for efficient restorations and high-end techniques for vibrant visual effects of light and shade.

### Extensive portfolio

IPS e.max Ceram ZirLiner (ZrO₂ only)
IPS e.max Ceram ZirLiner are ceramic materials especially designed to promote a reliable bond with zirconium oxide substrates. They assist in adjusting the restoration to the desired tooth shade and provide a natural fluorescent effect from the depth of the restoration.

IPS e.max Ceram Intensive ZirLiner (ZrO₂ only)
IPS e.max Ceram Intensive ZirLiner are intensively shaded ceramic materials for customizing basic shades. They are used for creating visual depth in labial and occlusal areas, particularly in situations where space is limited.

IPS e.max Ceram Intensive Margin (ZrO₂ only)
IPS e.max Ceram Intensive Margin materials are used for customizations of the ceramic shoulder. They can be applied to the margin materials or they can be applied directly.

IPS e.max Ceram Deep Dentin
IPS e.max Ceram Deep Dentin are shaded opaque dentin materials suitable for application in low-thickness areas and in the incisal region.

IPS e.max Ceram Shade range

#### ZL clear, ZL 1, ZL 2, ZL 3, ZL 4, ZL Gingiva

#### ZL yellow, ZL orange, ZL brown, ZL incisal

#### A–D, BL and Chromascop shades

#### IM yellow, IM yellow-green, IM orange, IM orange-pink

#### A–D, BL and Chromascop shades

Note: No ZirLiner is required when veneering IPS e.max ZirCAD frameworks.

IPS e.max Ceram Product description

IPS e.max Ceram Impulse Inter Incisal
IPS e.max Ceram Impulse Inter Incisal materials are useful for increasing the brightness in the incisal third. The material is applied directly onto the dentin in an outline of a butterfly.

IPS e.max Ceram Impulse Cervical Transpa
IPS e.max Ceram Cervical Transpa materials are useful for reproducing shades with an intensified translucency and they promote a natural transition between the gingiva and veneering material.

IPS e.max Ceram Transpa Incisal
IPS e.max Ceram Transpa Incisal materials are modelled on the natural incisal tooth structure. They result in an accurate reproduction of the A-D shades if used in combination with dentin materials on opaque substrates.

IPS e.max Ceram Power Incisal
IPS e.max Ceram Power Incisal materials are modelled on the natural incisal tooth structure. They result in an accurate reproduction of the A-D shades if used in combination with the Power dentin materials on translucent substrates.

IPS e.max Ceram Incisal Edge
IPS e.max Ceram Incisal Edge is used for achieving what is referred to as the halo effect, which is caused by the reflection of light in the incisal margin of natural teeth.

IPS e.max Ceram Incisal Edge

#### II white-blue

#### CT yellow, CT orange-pink, CT Khaki, CT orange

#### I BL, TI 1, TI 2, TI 3 and I 1, I 2, I 3 for Chromascop

#### PI BL, PI 1, PI 2, PI 3

The veneering materials are dyed to visualize them in more detail.
IPS e.max Ceram
Dentin
IPS e.max Ceram dentin materials are aligned with the shade and translucency of the natural dentin. Applied on opaque substrates, they result in an accurate reproduction of the selected dentin shade.

IPS e.max Ceram Power Dentin
IPS e.max Ceram Power Dentin materials are more opaque and brighter than conventional dentin materials. They are particularly recommended for use on translucent substrates.

IPS e.max Ceram Impulse Opal Effect
IPS e.max Ceram Opal Effect materials are especially shaded incisal materials. They allow to mimic the dynamic play of light and shade found in natural teeth.

IPS e.max Ceram Impulse Mamelon
IPS e.max Ceram Mamelon materials are intensively shaded opaque Effect materials for creating accents in the incisal third. They can be applied in thin lines on the reduced dentin to suit the user’s preferred working style.

IPS e.max Ceram Impulse Transpa
IPS e.max Ceram Transpa materials are available in a variety of colour nuances. They are useful for recreating natural-looking translucent areas, particularly in the incisal third.

IPS e.max Ceram Impulse Special Incisal
IPS e.max Ceram Special Incisal materials can either be admixed to the IPS e.max Incisal materials to modify and intensify their tonality or they can be applied directly.

IPS e.max Ceram Impulse Occlusal Dentin
IPS e.max Ceram Occlusal dentin materials are useful for customizations, especially in the occlusal area. These materials can also be applied in cervical, palatal and lingual areas.

IPS e.max Ceram Selection
IPS e.max Ceram Selection consists of twelve Enamel and Effect materials especially designed for enhanced creativity and individuality in the layering technique. The twelve shades are divided into three groups: Special Enamel, Light Reflector and Light Absorber.

IPS e.max Ceram Add-On
IPS e.max Ceram Add-On materials are useful for adjustments of e.g. contact areas, pontic supports, shoulders, etc. Four different IPS e.max Ceram Add-On materials are available to meet various requirements.

IPS e.max Ceram Gingiva
IPS e.max Ceram Gingiva are ceramic materials that are especially shaded to allow the reproduction of naturally looking soft-tissue parts. They are coordinated with the Gingiva Solution colour concept of Ivoclar Vivadent.

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IPS Ivocolor®
IPS Ivocolor® Universal Stain and Glaze materials
IPS Ivocolor® is a universal range of Stain and Glaze materials that feature compatibility with the press, CAD and layering ceramics from Ivoclar Vivadent.

IPS Ivocolor® Shade pastes are available in 9 dentin and 3 incisal shades. They are suited for both internal and external characterizations.

IPS Ivocolor® Essence powders are available in 23 shades. They can be mixed or flushed into the layering materials (internal characterization) or painted on the surfaces (external characterizations).

IPS Ivocolor® Glaze are glazing powders and pastes available in a fluorescent and non-fluorescent version.
“The versatile glass-ceramic IPS e.max Ceram allows me to create natural-looking restorations according to the patient’s individual requirements, irrespective of whether zirconium oxide or lithium disilicate was used as the framework material.”

August Bruguera
Spain
Natural esthetics

Clinical cases with exquisite, lifelike outcomes

Crowns (37 – 46): IPS e.max® ZirCAD, IPS e.max® Ceram
Dr Alessandro Motta / Aldo Zilio, Italy

Veneers (13 – 23): IPS e.max® Press, IPS e.max® Ceram
Dr Frank Schütz / Thorsten Michel, Germany

"The versatile glass-ceramic IPS e.max Ceram allows me to create natural-looking restorations according to the patient's individual requirements, irrespective of whether zirconium oxide or lithium disilicate was used as the framework material."
August Bruguera, Spain
Impressive quality

reliable

easy

esthetic
After ten firing cycles, IPS e.max Ceram did not show any perceptible changes in shade or opacity.\textsuperscript{3}

94.9% survival rate\textsuperscript{1}

The high survival rate of IPS e.max Ceram significantly contributes to the long-lasting satisfaction of patients.

High firing stability

IPS e.max Ceram offers exceptional firing stability, homogeneity and surface quality - both in small single-tooth restorations and large bridge constructions.

Exceptional stability of shade and opacity

After ten firing cycles, IPS e.max Ceram did not show any perceptible changes in shade or opacity.\textsuperscript{3}

Excellent bond strength

Optimally adjusted CTE range to build up the compressive stresses in the ceramic.\textsuperscript{4}

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\textsuperscript{1} IPS e.max Scientific Report Vol. 02 / 2001 – 2013
\textsuperscript{2} Schurig Axel, Master Thesis (2016)
\textsuperscript{3} R&D Ivoclar Vivadent, Schaan, Liechtenstein (2015)
\textsuperscript{4} R&D Ivoclar Vivadent, Schaan, Liechtenstein (2016)
Veneering made easy and efficient

The Cementation Navigation System is a popular multimedia application that offers hands-on advice in selecting the best luting material for any given case. The app is easy to use and comes with detailed 3D animations and step-by-step instructions.

www.cementation-navigation.com

1 Simplified selection of shade and translucency

The IPS e.max Shade Navigation App (SNA) assists users in finding the most suitable shade and translucency quickly and easily.

5 Appropriate cementation

The Cementation Navigation System is a popular multimedia application that offers hands-on advice in selecting the best luting material for any given case. The app is easy to use and comes with detailed 3D animations and step-by-step instructions.

www.cementation-navigation.com
Suitable with lithium disilicate and zirconium oxide
• IPS e.max Press
• IPS e.max CAD
• IPS e.max ZirCAD
• IPS e.max ZirPress

Framework design

2

The Programat® furnaces are distinguished by:
• Infrared technology for object-adjusted temperature control
• Various assistance systems for optimum firing results

Precise firing procedures

3

The stains and glazes of the IPS Ivocolor® assortment allow a high degree of customization to be achieved in conjunction with all IPS ceramic materials.
• Simplified handling due to innovative paste formulation
• High gloss at a firing temperature of only 710°C
• Fluorescence with IPS Ivocolor Glaze Fluo

Versatile characterizations

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