



IPS **e.max**[®]

Ceram

The natural veneering ceramic
for LS_2 and ZrO_2

All ceramic,
all you need.

ivoclar
vivadent[®]
passion vision innovation

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.



IPS e.max[®] Press fully veneered with IPS e.max[®] Ceram

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.

Lithium disilicate



Zirconium oxide



For all veneering techniques

IPS e.max Ceram features compatibility with all veneering techniques, offering maximum flexibility and ample scope for creativity.

Veneers on refractory dies



Micro-layering



Partial veneers Cut-back technique



Full-coverage veneers



Gingiva Solution



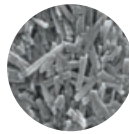


Following **nature's** **blueprint**

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.

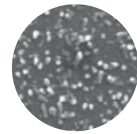


**Natural
tooth**



Hydroxyapatite crystals

**Material structure
IPS e.max Ceram**



Fluorapatite crystals

Natural **translucency** and **opacity**



Incisal materials with
natural translucency



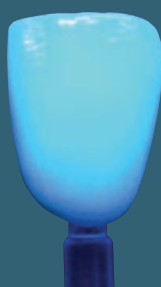
Dentin materials with
an ideal degree of opacity

True-to-nature **fluorescence**

Natural tooth
structure in UV light



Veneered crown in
UV light



Extensive portfolio

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.

Product description	<p>IPS e.max Ceram Zirliner (ZrO₂ only)</p> <p>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.</p>	<p>IPS e.max Ceram Intensive Zirliner (ZrO₂ only)</p> <p>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.</p>	<p>IPS e.max Ceram Margin (ZrO₂ only)</p> <p>IPS e.max Ceram Margin materials feature a slightly higher opacity and fluorescence than the IPS e.max Ceram Dentin materials. They facilitate the customization of ceramic shoulders.</p>	<p>IPS e.max Ceram Intensive Margin (ZrO₂ only)</p> <p>IPS e.max Ceram Intensive Margin materials are used for customizations of the ceramic shoulder. They can be admixed to the margin materials or they can be applied directly.</p>	<p>IPS e.max Ceram Deep Dentin</p> <p>IPS e.max Ceram Deep Dentin are shaded opaque dentin materials suitable for application in low-thickness areas and in the incisal region.</p>
Application example					
Shade range	ZL clear, ZL 1, ZL 2, ZL 3, ZL 4, ZL Gingiva	IZL yellow, IZL orange, IZL brown, IZL 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.					
Product description	<p>IPS e.max Ceram Impulse Inter Incisal</p> <p>IPS e.max Ceram 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.</p>	<p>IPS e.max Ceram Impulse Cervical Transpa</p> <p>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.</p>	<p>IPS e.max Ceram Transpa Incisal</p> <p>IPS e.max Ceram 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.</p>	<p>IPS e.max Ceram Power Incisal</p> <p>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.</p>	<p>IPS e.max Ceram Impulse Incisal Edge</p> <p>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.</p>
Application example					
Shade range	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	Incisal Edge

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.



A-D-, BL and Chromascop shades

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.



A-D and BL shades

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.



OE 1, OE 2, OE 3, OE 4, OE 5, OE violet

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.



MM light, MM salmon, MM yellow-orange

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.



T neutral, T clear, T blue, T brown-grey, T orange-grey

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.



SI yellow, SI grey

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.



OD orange, OD brown

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



aqua, citrine, honey, apricot, quartz, diamond, silk, fog, salmon, cream, lavender, taupe

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.



A-O BL, A-O Margin, A-O Dentin, A-O Incisal

IPS e.max Ceram
Gingiva

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



BG34, G1, G2, G3, G4, G5, IG1, IG2, IG3, IG4, IG5

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.



SD0, SD1, SD2, SD3, SD4, SD5, SD6, SD7, SD8, SI1, SI2, SI3, E01, E02, E03, E04, E05, E06, E07, E08, E09, E10, E11, E12, E13, E14, E15, E16, E17, E18, E19, E20, E21, E22, E23
Glaze Paste / FLUO
Glaze Powder / FLUO



Crowns (13 – 23): IPS e.max® Press, IPS e.max® Ceram
Dr João Fonseca, Portugal / August Bruguera, Spain

“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

Impressive
quality

reliable

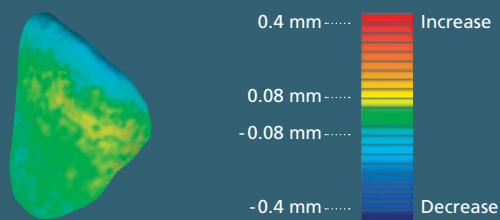
easy

esthetic

94.9%

94.9% survival rate¹

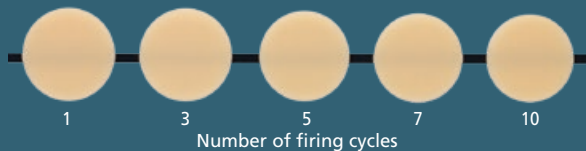
The high survival rate of IPS e.max Ceram significantly contributes to the long-lasting satisfaction of patients.



Three dimensional volumetric change between the first and second firing process

High firing stability

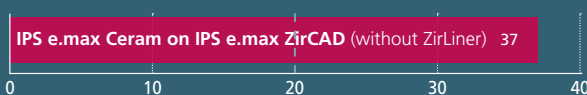
IPS e.max Ceram offers exceptional firing stability, homogeneity and surface quality - both in small single-tooth restorations and large bridge constructions.



Exceptional stability of shade and opacity

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

Mean bond strength (MPa)



ISO 9693-2:2016 Minimum requirement: 20 MPa

Excellent bond strength

Optimally adjusted CTE range to build up the compressive stresses in the ceramic.⁴

¹ IPS e.max Scientific Report Vol. 02 / 2001 – 2013

² Schurig Axel, Master Thesis (2016)

³ R&D Ivoclar Vivadent, Schaan, Liechtenstein (2015)

⁴ R&D Ivoclar Vivadent, Schaan, Liechtenstein (2016)

Veneering made **easy** and **efficient**

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



2 Framework design



Suitable with lithium disilicate and zirconium oxide

- IPS e.max Press
- IPS e.max CAD
- IPS e.max ZirCAD
- IPS e.max ZirPress

3 Precise firing procedures



The Programat® furnaces are distinguished by:

- Infrared technology for object-adjusted temperature control
- Various assistance systems for optimum firing results

4 Versatile characterizations



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

ipsemax.com

Ivoclar Vivadent AG
Bendererstr. 2
9494 Schaan
Liechtenstein
Tel. +423 235 35 35
Fax +423 235 33 60
www.ivoclarvivadent.com

721200/en/2018-12


ivoclar
vivadent[®]
passion vision innovation