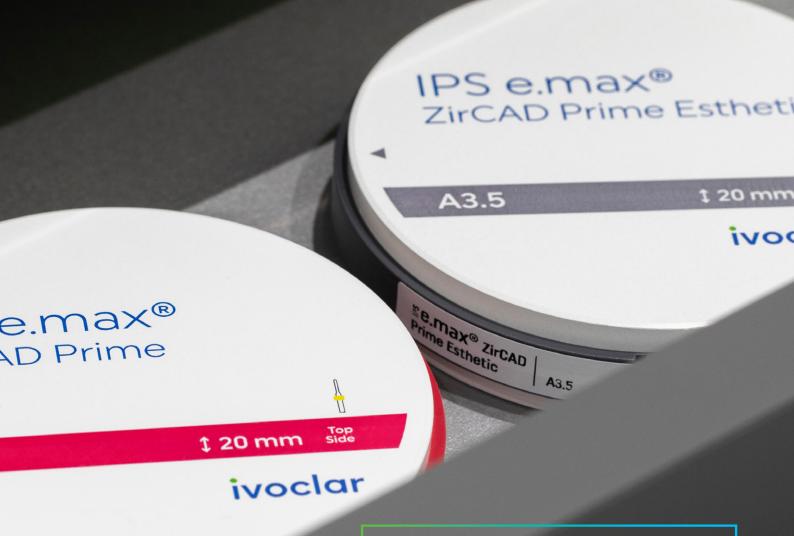
#### ivoclar

# Expertise creates trust



IPS e.max® ZirCAD

Prime Prime Esthetic

## Esthetic and flexible – everything you need

IPS e.max ZirCAD Prime delivers a superior level of quality and highend esthetics in zirconium oxide restorations. Optimized workflows enhance the efficiency and profitability of your dental laboratory. IPS e.max ZirCAD Prime and IPS e.max ZirCAD Prime Esthetic complement each other in terms of their material composition and their range of applications.

- ✓ Impressive esthetic appearance and high stability
- ✓ High-quality restorations featuring a seamless internal progression of shade and translucency
- ✓ Precise shading of the material to match the desired A-D shade
- ✓ All areas of application [2]
- ✓ For various fabrication techniques: glazing, staining, cut-back, layering and infiltration [3]
- √ 10-year IPS e.max guarantee

The IPS e.max ZirCAD Prime product family

IPS e.max ZirCAD Prime is an all-round disc that accommodates a wide variety of applications and techniques.

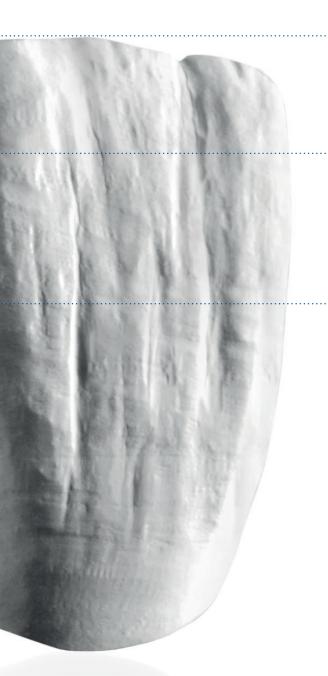
IPS e.max ZirCAD Prime Esthetic is a specialist disc that allows natural-looking<sup>[1]</sup> crowns to be created efficiently.

[1] At natural light conditions. The use of artificially generated UV or UV-like light may result in a different impression.

[2] IPS e.max ZirCAD Prime is suitable for fabricating crowns and bridges composed of up to 14 units, while IPS e.max ZirCAD Prime Esthetic is used for creating crowns and three-unit bridges. R&D Ivoclar Vivadent, Schaan

[3] IPS e.max ZirCAD Prime Esthetic is not approved for use in the layering technique. R&D Ivoclar Vivadent Schaan. Liechtenstein

## GT Technology: synonymous with prime quality



#### Highly translucent incisal zone

- Optimally coordinated shade
- Highest level of translucency in the incisal zone
- Highly esthetic 5Y-TZP zirconium oxide
- Flexural strength: 650 MPa<sup>[4]</sup>
- 3-mm thickness, irrespective of the disc thickness

#### Innovative transition zone

- Seamless, layer-free transition zone
- Natural shading from the dentin to the enamel
- Progressively higher translucency towards the incisal zone
- Progressively higher flexural strength towards the cervical area
- 4-mm thickness, irrespective of the disc thickness

#### High-strength dentin zone

- Maximum stability in the tooth neck area
- Coordinated shading and translucency
- IPS e.max ZirCAD Prime Esthetic: 4Y-TZP
- zirconium oxide exhibiting a flexural strength of 850 MPa<sup>[5]</sup> - IPS e.max ZirCAD Prime: high-strength 3Y-TZP zirconium oxide
- exhibiting a flexural strength of 1200 MPa<sup>[5]</sup> - Thickness varies depending on the thickness of the disc (7-18mm)

GT Technology is the key to the genuinely seamless progression of shade and translucency within the disc, the outstanding accuracy of fit of the product and its efficient processing properties. This technology is based on the blend of two zirconium oxide raw materials featuring different strengths and optical characteristics.



#### Seamless progression of shade and translucency

- ✓ Innovative filling technology is responsible for the special structure of the disc, which sets it apart from other discs
- ✓ No layers within the disc
- ✓ Smooth transition between the dentin and the enamel



#### Adjusted sintering kinetics due to advanced and optimized powder conditioning

- ✓ For uniform shrinkage behaviour
- ✓ For exceptional accuracy of fit



#### Compaction of the discs by means of Cold Isostatic Pressing (CIP)

- ✓ Enhanced microstructure and shorter sintering cycles
- ✓ Optimized translucency



#### Precise shading

- ✓ Simple polishing or glazing produces an excellent shade match with the A-D shade guide
- ✓ For the efficient fabrication of shade matched restorations

<sup>[4]</sup> Typical mean value of the biaxial strength (incisal), R&D Ivoclar Vivadent AG, Schaan, Liechtenstein [5] Typical mean value of the biaxial strength (dentin), R&D Ivoclar Vivadent AG, Schaan, Liechtenstein

## Redefining the esthetics of zirconium oxide

Do you fashion the majority of your crowns with zirconium oxide? Do you have high expectations for the materials you use and the restorations you create? Are you constantly looking for new ways to achieve impressive natural-looking results with ease? If that is the case, we would like to invite you to discover our vision of esthetics and share our enthusiasm for it!

# IPS e.max® ZirCAD Prime Esthetic Efficient and esthetic

#### Optimum results due to a special combination of raw materials

IPS e.max ZirCAD Prime Esthetic contains a blend of two zirconium oxide raw materials: 4Y-TZP and 5Y-TZP. They are responsible for a uniform progression of the shade as well as just the right balance of stability<sup>[6]</sup>, colour and translucency. As a result, your restorations will be characterized by an ideal combination of high flexural strength and lifelike, coordinated translucency values.

#### The fastest way to producing esthetic monolithic restorations

- ✓ Minimal manual effort yet impressive natural-looking [1] results
- ✓ For esthetic restorations at a consistently high level of quality
- ✓ Reliable and reproducible process

#### IPS e.max ZirCAD Prime Esthetic

Easy – economical – lifelike: It takes only a few steps to produce esthetic monolithic restorations. Additional staining or layering is unnecessary in most cases. Simple polishing or glazing is adequate for achieving an accurate match with the A-D shade guide. Efficiency and a low susceptibility to error are decided benefits.

#### IPS e.max ZirCAD Prime Esthetic

- ✓ The ultimate zirconium oxide disc for maximum esthetics
- Optimum combination of simplicity, efficiency and authenticity
- ✓ For crowns and three-unit bridges



### The all-round disc at a Prime level

IPS e.max ZirCAD Prime is the One-Disc Solution and therefore the all-round genius within the portfolio. The high-strength zirconium oxide material (1200 MPa<sup>[7]</sup>) is known for its high accuracy of fit and exceptional quality. It ingeniously blends esthetics with flexibility and accommodates all applications and fabrication techniques.

#### High strength for maximum reliability

The high flexural strength of 1200 MPa allows the material to be used for an extensive range of applications. The disc can be used to fabricate restorations on prepared teeth and on implant abutment systems. Due to its high strength, IPS e.max ZirCAD Prime is suitable for minimally invasive cases as well as complex cases involving gingival recession and bone loss.

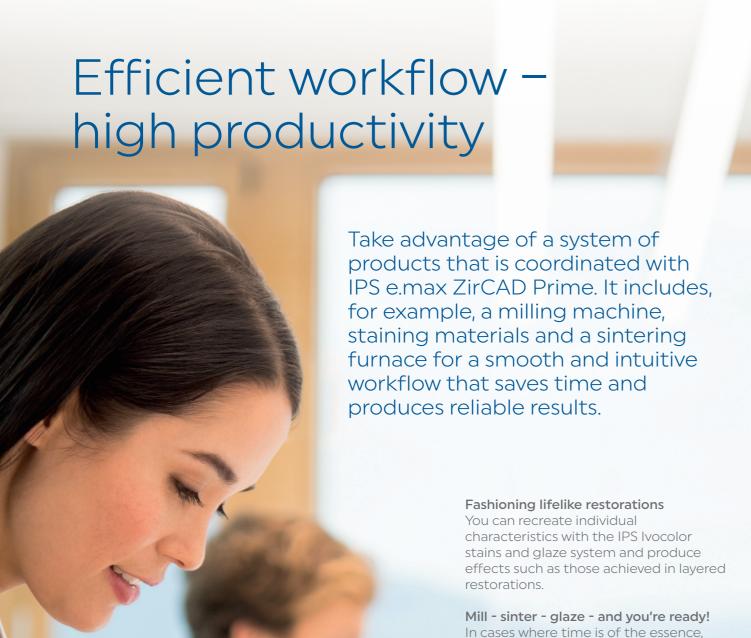


withstand the strongest forces

#### Many different processing possibilities – all rolled into one disc

The disc helps to simplify stock management. Regardless of the type of restoration needed, whether it be an efficiently fabricated monolithic posterior crown, a stable bridge, an implant-supported restoration or a highly esthetic and elaborately customized single anterior tooth: IPS e.max ZirCAD Prime always offers a suitable solution.





you can finalize your IPS e.max ZirCAD Prime Esthetic restorations by simply using the fluorescent glazing paste: for

vibrant results.

#### IPS e.max ZirCAD Prime A suitable disc for every situation

	IPS e.max ZirCAD Prime	IPS e.max ZirCAD Prime Esthetic
	The all-round disc for a wide variety of applications and techniques	The specialist disc for the efficient fabrication of natural-looking [1] crowns
Class of material	incisal: 5Y-TZP dentin: 3Y-TZP	incisal: 5Y-TZP dentin: 4Y-TZP
Shade	BL1, BL2, BL3, BL4, A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4	BL1, BL2, BL3, BL4, A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4
Disc thickness (Ø 98.5 mm)	14mm, 16mm, 20mm, 25mm	14mm, 16mm, 20mm
Flexural strength	650 MPa (incisal) 1200 MPa (dentin)	650 MPa (incisal) 850 MPa (dentin)
Fracture toughness <sup>[8]</sup>	>5.0 MPa • m <sup>1/2</sup> (dentin)	3.6 MPa • m <sup>1/2</sup> (dentin)
Minimum wall thickness (crown)	Anterior tooth monolithic: 0.8 mm Posterior tooth monolithic: 1.0 mm	Anterior tooth monolithic: 0.8 mm Posterior tooth monolithic: 1.0 mm
Applications	<ul> <li>Crowns and crown copings</li> <li>3-unit bridges and bridge frameworks</li> <li>4-unit and multi-unit bridges and bridge frameworks with max. 2 pontics</li> <li>Crowns and bridges on natural teeth and on implant systems</li> </ul>	– Crowns – 3-unit bridges with max. 1 pontic
Recommended fabrication techniques	<ul> <li>Staining and glazing</li> <li>Brush infiltration with LT Colouring and Effect liquids</li> <li>Cut-back</li> <li>Layering</li> </ul>	– Polishing – Staining and glazing – Cut-back

Information about our monochromatic zirconium oxide discs is available at www.ivoclar.com/IPS-e.max-ZirCAD

 $<sup>[8] \</sup>label{thm:measurement} \textbf{ Measurement of the fracture toughness using the Vickers testing method (dentin): R\&D Ivoclar Vivadent AG, Schaan, Liechtenstein Liechtens$ 

#### Zirconium oxide workflow: peak productivity, fast processing and esthetic results



#### Scan and design

The high-end lab scanner PrograScan PS7 scans upper and lower jaw models in one process: simultaneously, fully automatic and in just 10 seconds.



#### Select

IPS e.max ZirCAD Prime delivers impressive esthetic results and exceptional quality.



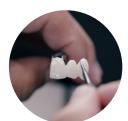
#### Produce

PrograMill PM7 offers high performance and fast fabrication.



#### Sinter

The Programat S2 sintering furnace handles intuitively and ensures high accuracy of fit.



#### Finishing

IPS Ivocolor is a universal range of stains and glazes for customizing the appearance of high-quality and esthetic restorations.



Cement

Easy and economical zirconia cementation with ZirCAD Cement.