

**IPS e.max<sup>®</sup> ZirCAD<sup>®</sup>**



**IPS e.max  
ZirCAD Multi**

▶▶▶ A natural gradient of chroma and translucency ▶▶▶

Information for the Laboratory

**ivoclar<sup>®</sup>**  
**vivadent<sup>®</sup>**  
passion vision innovation

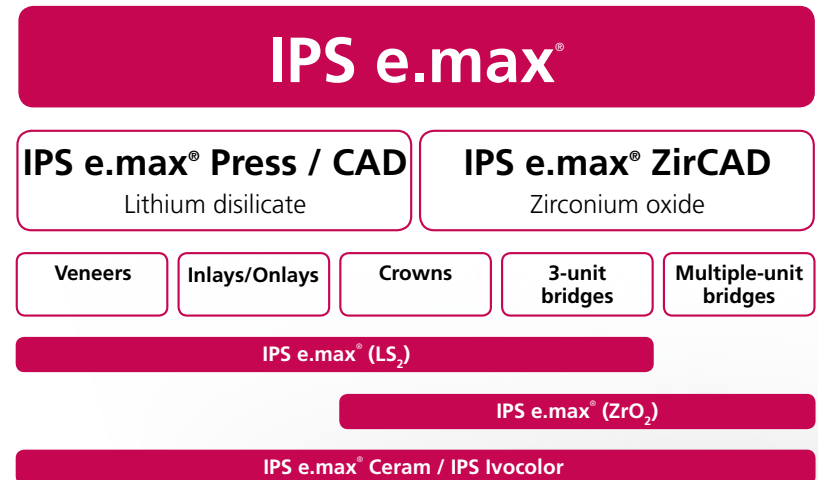
**IPS e.max<sup>®</sup>**

# More all-ceramics, more choice, more **IPS e.max®**

Since its launch, the IPS e.max system from Ivoclar Vivadent has become a leading all-ceramic mainstay that has benefited laboratories, clinicians and patients alike. Consisting of lithium disilicate glass ceramic materials, IPS e.max Press and IPS e.max CAD, the IPS e.max system has now been expanded to include a comprehensive selection of zirconium oxide discs and blocks under IPS e.max ZirCAD.

IPS e.max ZirCAD is a versatile, premium zirconium oxide material with a large indication range. Available in four different translucency levels, IPS e.max ZirCAD is ideal for fabricating copings and frameworks as well as full-contour crowns and bridges. IPS e.max ZirCAD is the material of choice for when high strength, minimal reduction and natural looking esthetics are required. Dental professionals benefit from the material's high performance, adaptability, and premium results.

IPS e.max lithium disilicate and IPS e.max zirconium oxide offer versatile all-ceramic solutions for every case. IPS e.max is the only system that brings these two materials together in a single, comprehensive, easy to use solution that allows all indications in fixed prosthetics to be covered with an all-ceramic option.

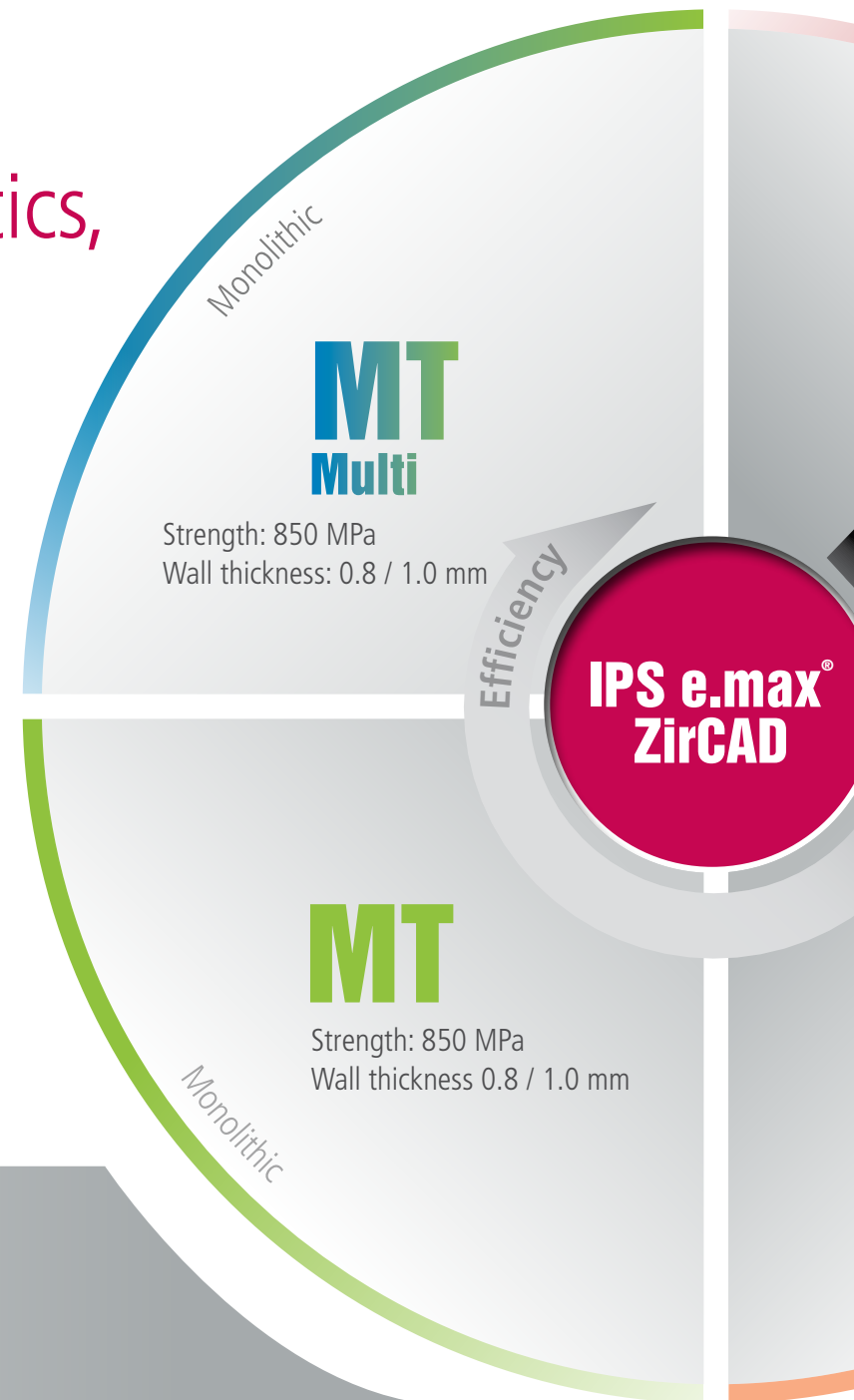


# High strength, premium esthetics, versatile processing options.

## Not all Zirconia is created equal.

IPS e.max ZirCAD MT and MT Multi were specifically developed to stand out in the wide range of zirconia translucency options on the market. This medium translucency (MT) range of discs offers a unique powder formulation, which provides high biocompatibility and excellent flexibility.

Unlike other anterior or HT zirconias, MT and MT Multi offer optimized esthetics, with natural looking restorations that don't grey in the mouth. Furthermore, with up to 30% higher flexural strength and 50% higher fracture toughness compared to other common translucent zirconia materials, MT discs allow for the fabrication of a wide variety of indications and conservative preparations without compromising the longevity of the restoration.



# MO

Strength: 1,150 MPa  
Wall thickness: 0.4 / 0.6 mm

Frameworks

Frameworks

# LT

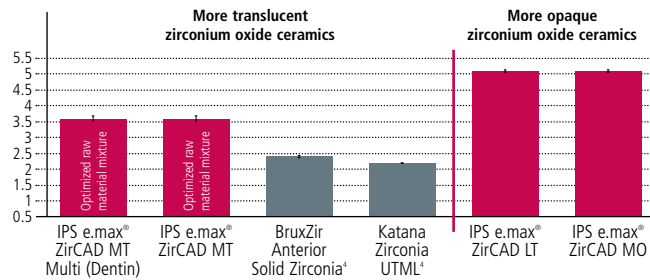
Strength 1,200 MPa  
Wall thickness 0.4 / 0.6 mm

Monolithic

## Maximum flexibility in anterior and posterior restorations

### Fracture toughness [MPa·m<sup>1/2</sup>]

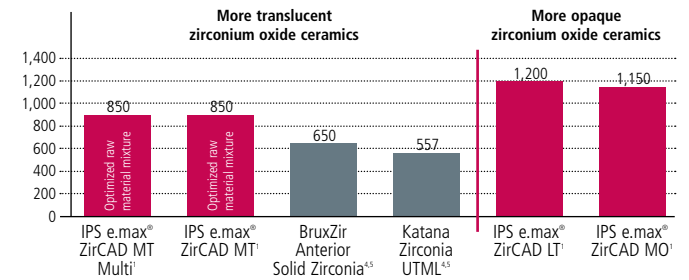
A high fracture toughness increases the ability to resist crack propagation. The higher the measured value, the better the long-term clinical performance.



Fracture toughness measured by the Vickers indentation method  
R&D Ivoclar Vivadent AG, Schaan, Liechtenstein.

### Flexural strength [MPa]

A high flexural strength is of significant importance for restorations in stress-bearing areas. Flexural strength is calculated on the basis of the fracture load, or the force applied to a material just before it yields.



# IPS e.max® ZirCAD

# IPS e.max® ZirCAD MT Multi

The most esthetic, high strength multi-translucent zirconia.

The unique polychromatic formulation of IPS e.max ZirCAD MT Multi provides the perfect combination of zirconia strength (850MPa<sup>1</sup>), color, and translucency.

Designed for both the anterior and posterior region, the integrated progression of shade and translucency in IPS e.max ZirCAD MT Multi maximizes the appearance of monolithic crowns and bridges. Unlike some other multi zirconia discs on the market, which only change the shading through the disc with pigments, IPS e.max ZirCAD MT Multi offers innovative shading technology to provide a true evolution of material composition from MT to HT zirconia. The results are restorations that demonstrate a natural progression of chroma and translucency from dentin to enamel. Not only does this allow for a beautiful restoration, it also allows for the efficient production of restorations in A-D shades without requiring further characterization or staining.

## Indications

- Full contour crowns
- Full contour three-unit bridges

## Processing options

- Staining
- Glazing



## Benefits at a glance

- Especially suited for highly esthetic monolithic restorations
- Efficient due to fewer manual processing steps
- Possibility of fabricating three-unit anterior and posterior bridges due to high strength and fracture toughness
- Suited for conservative preparations; only requiring 0.8 mm of tooth reduction in the anterior and 1.0 mm of tooth reduction in the posterior.

<sup>1</sup> Mean biaxial flexural strength, R&D Ivoclar Vivadent, Schaan, Liechtenstein



Glazing is all that it takes to finish the highly esthetic restoration.

## Delivery form

- Shades: 8 polychromatic discs with graduated level of shade and translucency in the shades BL1, A1, A2, A3, B1, B2, C2, D2
- Translucency: MT Multi (Medium Translucency Multi)
  - Ø: 98.5 mm
- Thicknesses: 16 and 20 mm

# IPS e.max® ZirCAD MT

The most versatile, esthetic, high strength zirconia.

For easily customizable esthetic zirconia restorations, with no sacrifice in strength (850MPa<sup>1</sup>), IPS e.max ZirCAD MT is the ideal zirconia choice.

Lending itself to various processing options, IPS e.max ZirCAD MT offers a high degree of flexibility when creating unique detailed restorations. The wide range of shades enables the efficient fabrication of esthetic monolithic or layered restorations, with the option of custom infiltration before sintering.

## Indications

- Full contour crowns
- Full contour three-unit bridges

## Processing options

Depending on which disc is used, the following processing options are available:

- Brush infiltration
- Staining
- Cut-back
- Glazing



## Benefits at a glance

- Especially suitable for esthetic monolithic anterior and posterior restorations
- Maximum customization due to individual characterization before sintering
- Suited for conservative preparations; only requiring 0.8 mm of tooth reduction in the anterior and 1.0 mm of tooth reduction in the posterior.

<sup>1</sup> Mean biaxial flexural strength, R&D Ivoclar Vivadent, Schaan, Liechtenstein





## Delivery form

Shades: 1 Bleach and 7 monochromatic discs in shades BL, A1, A2, A3, B1, B2, C2, D2  
Translucency: MT (Medium Translucency)  
Ø: 98.5 mm  
Thicknesses: 14 and 18 mm

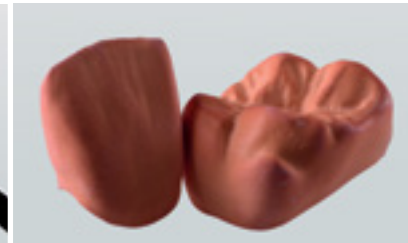
Liquids: IPS e.max ZirCAD MT Coloring Liquids  
– 16 A–D shades, 60 ml  
– 5 Effect shades, 15 ml (blue, violet, grey, orange, brown)



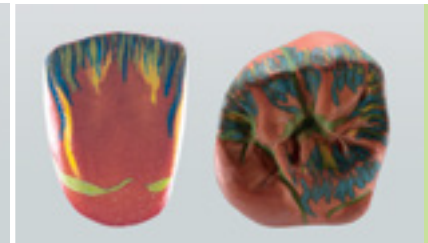
IPS e.max ZirCAD Coloring Liquid Indicators  
– 3 Indicators, 15 ml (blue, red, yellow)  
– Diluter, 60 ml



Simply stain and glaze with IPS Ivocolor



Crowns customized by basic-scheme infiltration



Crowns customized by advanced-scheme infiltration

# IPS e.max® ZirCAD LT

## The all-round, high strength zirconia.

IPS e.max ZirCAD LT is the workhorse in the portfolio, especially when strength is of paramount importance. The material combines high mechanical stability (1,200 MPa<sup>1</sup>) with pleasing esthetics. These properties make IPS e.max ZirCAD LT suitable for the fabrication of minimally invasive single-tooth restorations and stable multi-unit framework structures. Implant-supported superstructures supplement the offering. Restorations can be produced using a variety of techniques: monolithic method, infiltration, partial veneering and complete veneering.

### Indications

- Full contour crowns
- Full contour bridges with three or more units<sup>\*</sup>
- Framework structures with three or more units<sup>\*</sup>
- Framework structures with crowns

### Processing options

Depending on which disc is used, the following processing options are available:

- Brush infiltration
- Staining technique
- Layering technique
- Glazing



## Benefits at a glance

- **Tooth-preserving preparation due to low wall thicknesses**
- **Minimally invasive crowns**
- **Especially suitable for long-span bridges due to an excellent flexural strength of 1,200 MPa<sup>1</sup> and high fracture toughness**

<sup>1</sup> Mean biaxial flexural strength, R&D Ivoclar Vivadent, Schaan, Liechtenstein  
<sup>\*</sup> Bridge indications limited in Canada to 6 units with no more than 2 pontics.



## Delivery form

- Shades: 1 Bleach and 6 monochromatic discs in group shades 0, 1, 2, 3, 4, sun, sun chroma and 8 A–D-shades BL, A1, A2, A3, B1, B2, C2, D2
- Translucency: LT (Low Translucency)
- Ø: 98.5 mm
- Thicknesses: 12, 14, 16, 18, 20 and 25 mm

- Liquids: IPS e.max ZirCAD LT Coloring Liquids
- 16 A–D shades, 60 ml
  - 6 Effect shades, 15 ml (blue, violet, grey, orange, brown, purple)

- IPS e.max ZirCAD Coloring Liquid Indicators
- 3 Indicators, 15 ml (blue, red, yellow)
  - Diluter, 60 ml

- Blocks: for PrograMill, CEREC/inLab<sup>2</sup> and PlanMill<sup>1</sup>
- Shades: LT BL, A1, A2, A3, B1, B2, C2, D2
- Block sizes: C17, B45



Restoration veneered with IPS e.max<sup>®</sup> Ceram Power Dentin and Incisal materials



Maximum customization by infiltration

# IPS e.max® ZirCAD MO

## The classic, creative framework zirconia.

IPS e.max ZirCAD MO has been developed for application in the classic veneering technique. Even discolored preparations and metal cores can be effectively concealed due to the material's heightened opacity. It allows the fabrication of customized, highly esthetic restorations.

### Indications

- Framework structures with crowns
- Framework structures with three or more units<sup>\*</sup>

### Processing options

- Layering technique
- Press-over technique
- CAD-on technique



## Benefits at a glance

- Especially suitable for the fabrication of multiple unit bridge frameworks due to an excellent flexural strength of 1,150 MPa<sup>†</sup> and high fracture toughness
- Effective masking of discoloured tooth structure and metal cores
- Natural shades for advanced esthetics

<sup>†</sup> Mean biaxial flexural strength, R&D Ivoclar Vivadent, Schaan, Liechtenstein  
<sup>\*</sup> Bridge indications limited in Canada to 6 units with no more than 2 pontics.



## Delivery form

- Shades: 1 Bleach and 4 monochromatic discs in group shades 0, 1, 2, 3, 4
- Translucency: MO (Medium Opacity)
- Ø: 98.5 mm
- Thicknesses: 10, 14, 18, 20 and 25 mm
  
- Blocks: for inLab\*
- Shades: 3 monochromatic blocks in group shades 0, 1, 2
- Block sizes: C13, C15, C15 L, B40, B40 L, B55, B65, B65 L-17, B85 L-22



Bridge veneered with IPS e.max® Ceram



Pressing over with IPS e.max® ZirPress ingots



Combined with IPS e.max® CAD veneering structures

# Precision fabrication, designed for IPS e.max®

The innovative and modern PrograMill milling machines for wet and dry processing are fully tailored to the IPS e.max range of materials. The 5-axis machines enable the fabrication of IPS e.max ZirCAD and IPS e.max CAD restorations that are characterized by precision, accuracy of fit and efficiency due to material-optimized milling strategies.



PrograMill One / PM3 / PM5 / PM7

Programat® S1 1600 is a light-weight, compact sintering furnace that offers a speed sintering program.

All IPS e.max ZirCAD restorations milled in the course of a day can be sintered overnight in the Programat S1 1600 with an overnight program. And if now and again the restorations have to be completed quickly, speed sintering programs are available.



Programat® S1 1600

# A perfect match

The following products are especially suited for use in combination with the IPS e.max range of materials for both efficient and high-end applications:

## IPS Ivocolor

Universal range of Stain and Glaze materials for all the ceramic materials from Ivoclar Vivadent.



## IPS e.max® Ceram

For the veneering of frameworks made of lithium disilicate (LS<sub>2</sub>) and zirconium oxide (ZrO<sub>2</sub>). The Power Dentin and Incisal materials are especially coordinated with IPS e.max ZirCAD.



## IPS e.max® ZirPress

For the press-over technique on IPS e.max ZirCAD MO frameworks.



## IPS e.max® CAD Veneering Solutions

For the CAD-on technique on IPS e.max ZirCAD MO frameworks.



**IPS e.max® Shade Navigation App** is the intelligent app which assists you in finding the most suitable shade. Just 5 clicks to find the right solution for an optimum shade match.



# Ideal luting system

We recommend the following proven cementation options to maximize the success of IPS e.max ZirCAD restorations:

## Ivoclean®

Cleaning paste for the cleaning of the bonding surfaces after try-in.



## SpeedCEM® Plus

For easy and fast self-adhesive cementation.



## CNS

The Cementation Navigation System offers practical orientation and guidance in questions relating to cementation.



**Download it at [www.cementation-navigation.com](http://www.cementation-navigation.com)**

# IPS e.max® ZirCAD®

## IPS e.max ZirCAD MT Multi

686876	IPS e.max ZirCAD MT Multi BL1 98.5-16/1
686877	IPS e.max ZirCAD MT Multi A1 98.5-16/1
686878	IPS e.max ZirCAD MT Multi A2 98.5-16/1
686879	IPS e.max ZirCAD MT Multi A3 98.5-16/1
686880	IPS e.max ZirCAD MT Multi B1 98.5-16/1
686881	IPS e.max ZirCAD MT Multi B2 98.5-16/1
686882	IPS e.max ZirCAD MT Multi C2 98.5-16/1
686883	IPS e.max ZirCAD MT Multi D2 98.5-16/1
686884	IPS e.max ZirCAD MT Multi BL1 98.5-20/1
686885	IPS e.max ZirCAD MT Multi A1 98.5-20/1
686886	IPS e.max ZirCAD MT Multi A2 98.5-20/1
686887	IPS e.max ZirCAD MT Multi A3 98.5-20/1
686888	IPS e.max ZirCAD MT Multi B1 98.5-20/1
686889	IPS e.max ZirCAD MT Multi B2 98.5-20/1
686890	IPS e.max ZirCAD MT Multi C2 98.5-20/1
686891	IPS e.max ZirCAD MT Multi D2 98.5-20/1

## IPS e.max ZirCAD MT

686860	IPS e.max ZirCAD MT BL 98.5-14/1
686861	IPS e.max ZirCAD MT A1 98.5-14/1
686862	IPS e.max ZirCAD MT A2 98.5-14/1
686863	IPS e.max ZirCAD MT A3 98.5-14/1
686864	IPS e.max ZirCAD MT B1 98.5-14/1
686865	IPS e.max ZirCAD MT B2 98.5-14/1
686866	IPS e.max ZirCAD MT C2 98.5-14/1
686867	IPS e.max ZirCAD MT D2 98.5-14/1
686868	IPS e.max ZirCAD MT BL 98.5-18/1
686869	IPS e.max ZirCAD MT A1 98.5-18/1
686870	IPS e.max ZirCAD MT A2 98.5-18/1
686871	IPS e.max ZirCAD MT A3 98.5-18/1
686872	IPS e.max ZirCAD MT B1 98.5-18/1
686873	IPS e.max ZirCAD MT B2 98.5-18/1
686874	IPS e.max ZirCAD MT C2 98.5-18/1
686875	IPS e.max ZirCAD MT D2 98.5-18/1

## IPS e.max ZirCAD LT

689503	IPS e.max ZirCAD LT BL 98.5-12/1
689504	IPS e.max ZirCAD LT A1 98.5-12/1

689505	IPS e.max ZirCAD LT A2 98.5-12/1
689506	IPS e.max ZirCAD LT A3 98.5-12/1
689507	IPS e.max ZirCAD LT B1 98.5-12/1
689508	IPS e.max ZirCAD LT B2 98.5-12/1
689509	IPS e.max ZirCAD LT C2 98.5-12/1
689510	IPS e.max ZirCAD LT D2 98.5-12/1
689511	IPS e.max ZirCAD LT BL 98.5-14/1
689512	IPS e.max ZirCAD LT A1 98.5-14/1
689513	IPS e.max ZirCAD LT A2 98.5-14/1
689514	IPS e.max ZirCAD LT A3 98.5-14/1
689515	IPS e.max ZirCAD LT B1 98.5-14/1
689516	IPS e.max ZirCAD LT B2 98.5-14/1
689517	IPS e.max ZirCAD LT C2 98.5-14/1
689518	IPS e.max ZirCAD LT D2 98.5-14/1
689519	IPS e.max ZirCAD LT BL 98.5-16/1
689520	IPS e.max ZirCAD LT A1 98.5-16/1
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689526	IPS e.max ZirCAD LT D2 98.5-16/1
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689528	IPS e.max ZirCAD LT A1 98.5-18/1
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689531	IPS e.max ZirCAD LT B1 98.5-18/1
689532	IPS e.max ZirCAD LT B2 98.5-18/1
689533	IPS e.max ZirCAD LT C2 98.5-18/1
689534	IPS e.max ZirCAD LT D2 98.5-18/1
689535	IPS e.max ZirCAD LT BL 98.5-20/1
689536	IPS e.max ZirCAD LT A1 98.5-20/1
689537	IPS e.max ZirCAD LT A2 98.5-20/1
689538	IPS e.max ZirCAD LT A3 98.5-20/1
689539	IPS e.max ZirCAD LT B1 98.5-20/1
689540	IPS e.max ZirCAD LT B2 98.5-20/1
689541	IPS e.max ZirCAD LT C2 98.5-20/1
689542	IPS e.max ZirCAD LT D2 98.5-20/1
689543	IPS e.max ZirCAD LT BL 98.5-25/1

689544	IPS e.max ZirCAD LT A1 98.5-25/1
689545	IPS e.max ZirCAD LT A2 98.5-25/1
689546	IPS e.max ZirCAD LT A3 98.5-25/1
689547	IPS e.max ZirCAD LT B1 98.5-25/1
689548	IPS e.max ZirCAD LT B2 98.5-25/1
689549	IPS e.max ZirCAD LT C2 98.5-25/1
689550	IPS e.max ZirCAD LT D2 98.5-25/1
686818	IPS e.max ZirCAD LT 0 98.5-12/1
686819	IPS e.max ZirCAD LT 1 98.5-12/1
686820	IPS e.max ZirCAD LT 2 98.5-12/1
686821	IPS e.max ZirCAD LT 3 98.5-12/1
686822	IPS e.max ZirCAD LT 4 98.5-12/1
686823	IPS e.max ZirCAD LT sun 98.5-12/1
686824	IPS e.max ZirCAD LT sun chroma 98.5-12/1
686825	IPS e.max ZirCAD LT 0 98.5-14/1
686826	IPS e.max ZirCAD LT 1 98.5-14/1
686827	IPS e.max ZirCAD LT 2 98.5-14/1
686828	IPS e.max ZirCAD LT 3 98.5-14/1
686829	IPS e.max ZirCAD LT 4 98.5-14/1
686830	IPS e.max ZirCAD LT sun 98.5-14/1
686831	IPS e.max ZirCAD LT sun chroma 98.5-14/1
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686837	IPS e.max ZirCAD LT sun 98.5-16/1
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686844	IPS e.max ZirCAD LT sun 98.5-18/1
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686849	IPS e.max ZirCAD LT 3 98.5-20/1

686850	IPS e.max ZirCAD LT 4 98.5-20/1
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686852	IPS e.max ZirCAD LT sun chroma 98.5-20/1
686853	IPS e.max ZirCAD LT 0 98.5-25/1
686854	IPS e.max ZirCAD LT 1 98.5-25/1
686855	IPS e.max ZirCAD LT 2 98.5-25/1
686856	IPS e.max ZirCAD LT 3 98.5-25/1
686857	IPS e.max ZirCAD LT 4 98.5-25/1
686858	IPS e.max ZirCAD LT sun 98.5-25/1
686859	IPS e.max ZirCAD LT sun chroma 98.5-25/1

## IPS e.max ZirCAD MO

686787	IPS e.max ZirCAD MO 0 98.5-10mm/1
686788	IPS e.max ZirCAD MO 1 98.5-10mm/1
686789	IPS e.max ZirCAD MO 2 98.5-10mm/1
686790	IPS e.max ZirCAD MO 3 98.5-10mm/1
686791	IPS e.max ZirCAD MO 4 98.5-10mm/1
686792	IPS e.max ZirCAD MO 0 98.5-14mm/1
686793	IPS e.max ZirCAD MO 1 98.5-14mm/1
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686797	IPS e.max ZirCAD MO 0 98.5-18mm/1
686798	IPS e.max ZirCAD MO 1 98.5-18mm/1
686799	IPS e.max ZirCAD MO 2 98.5-18mm/1
686800	IPS e.max ZirCAD MO 3 98.5-18mm/1
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686803	IPS e.max ZirCAD MO 2 98.5-20mm/1
686804	IPS e.max ZirCAD MO 3 98.5-20mm/1
686805	IPS e.max ZirCAD MO 4 98.5-20mm/1
687046	IPS e.max ZirCAD MO 0 98.5-20mm/1
686806	IPS e.max ZirCAD MO 0 98.5-25mm/1
686807	IPS e.max ZirCAD MO 1 98.5-25mm/1
686808	IPS e.max ZirCAD MO 2 98.5-25mm/1
686809	IPS e.max ZirCAD MO 3 98.5-25mm/1
686810	IPS e.max ZirCAD MO 4 98.5-25mm/1

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**United States**  
175 Pineview Drive  
Amherst, New York 14228  
716-691-0010  
800-533-6825  
Fax: 716-691-2285  
[www.ivoclarvivadent.com](http://www.ivoclarvivadent.com)

**Canada**  
1 - 6600 Dixie Road  
Mississauga, Ontario L5T 2Y2  
905-670-8499  
800-263-8182  
Fax: 905-670-3102  
[www.ivoclarvivadent.com](http://www.ivoclarvivadent.com)

  
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