WIELAND
ZENOSTAR

CREATING SEAMLESS ESTHETICS

Now coordinated with e.max®!

INFORMATION FOR THE LABORATORY
The Zenostar® zirconia system is the only zirconia system to share the IPS e.max shade concept. The extensive zirconia options are integrated with IPS e.max to create an expanded all-ceramic system that integrates different materials into one system for many indications.

Zenostar discs are available in three translucencies, each of which is comprised of a variety of shades and thicknesses. An appropriate disc can easily be selected depending on the indication and esthetic or functional needs of the final restoration. The names and corresponding shades of the Zenostar discs have been adjusted to complement the IPS e.max shade concept to simplify material selection.

Zenostar discs are produced using the highest quality raw materials and modern manufacturing processes resulting in:

- Optimized optical and mechanical properties.
- High-resistance to hydrothermal aging.
- Low thermal conductivity.
- Low abrasion when polished.
Variety of Processing Options with IPS e.max

With a wide range of processing options, the Zenostar system offers a variety of solutions for the efficient and individual production of dental prostheses made of zirconium oxide.

Full Contour:
- Stain and glaze with IPS e.max® Ceram or IPS Ivocolor®.
- Shade Zenostar discs using Zenostar Color infiltration liquids.

Veneering:
- Cutback and layer with IPS e.max Ceram
- Press over Zenostar with IPS e.max ZirPress
- CAD-On veneering solutions with IPS e.max CAD

Expansive processing options combined with the Zenostar zirconia material portfolio form an all encompassing zirconia system that meets the highest demands. Zenostar’s integration with Zenotec CAD/CAM technology brings efficient workflows and reproducible results to all types of cases.
The Zenostar® System

Full Contour

- Stain & Glaze
- Infiltration
- Partial Veneering
- Full Layering
- CAD-On Veneering
Seamless Esthetics
Full compatibility with the IPS e.max® system.

Versatile
Multiple shade and translucency options for complete customization.

Comprehensive system
A variety of processing options available to meet individual restorative needs.

Economical
Optimized disc hardness for reliable milling and low wear of milling tools.

Efficient
Zenostar discs are optimized for use with Zenotec CAD/CAM technology; integrated RFID technology guarantees streamlined automation for perfect results.
**Indications:**

- Monolithic single tooth restorations in the anterior and posterior regions.
- Monolithic 3-unit bridges in anterior and posterior regions.
- Substructure for cutback and layering on single tooth and maximum 3-unit bridge restorations.

**Shades:**

MT 0

**Indications:**

- Monolithic single tooth restorations in the anterior and posterior regions.
- Monolithic 3-unit bridges in anterior and posterior regions.
- Substructure for cutback and layering on single tooth and maximum 3-unit bridge restorations.
Processing example: Infiltration staining technique of fully-anatomical restorations made of Zenostar MT utilizing Zenostar MT Color liquids and Zenostar VisualiZr Liquids.

- Staining of the cervical area
- Staining of the body area
- Staining of the incisal area
Zenostar T is the best option for zirconia restorations when durability is a must. It is the ideal zirconia option for long-span monolithic bridges and cases in which only minimal occlusal reduction is possible. The material can be used for the production of fully anatomical restorations or framework structures on non-discolored preparations.

**Processing example: Stain and glaze technique on fully-anatomical restorations milled from Zenostar T.**

- **Occlusal Polishing**
- Coat the surfaces with a small amount of stain liquid to enhance the wettability of the surface.
- Apply Incisal Stains to imitate the appearance of the incisal edge.
Shades:

Indications:

- Monolithic single tooth restorations in the anterior and posterior regions.
- Long-span bridges in the anterior and posterior regions.
- Monolithic restorations for patients exhibiting signs of bruxism.

The cusps and fissures may be customized by using Effect shades.

Fire the stained crown on a honey-combed tray using the stipulated firing parameters.

Apply the glaze evenly over the surface and re-fire.
Zenostar MO was developed with veneering technology in mind. Even the most discolored preparations and metallic constructions (ex. titanium abutments) can easily be covered due to the increased opacity of Zenostar MO. When combined with IPS e.max, the strength and esthetics of Zenostar MO are unsurpassed.

Zenostar MO is available in 5 higher opacity shades that mimic the shade options of Zenostar T. Multiple processing options with IPS e.max Ceram allow this material to be used for the creation of highly individualized restorations.

Processing example: Layering IPS e.max Ceram on bridge constructions made from Zenostar MO.
Build up the tooth shape using Dentin materials

Complete the layering procedure with Incisal and Transpa materials

Completely separate the interdental areas prior to firing

Shades:

MO 0  MO 1  MO 2  MO 3  MO 4

Indications:

- Single unit copings in the anterior and posterior regions.
- Long-span frameworks in the anterior and posterior regions.
High-tech CAD/CAM Manufacturing of Zenostar

Zenotec milling machines are the ideal choice for fabricating your Zenostar restorations with the newest technology. The Zenotec select hybrid stands for precision and productivity. The system combines modern 5-axis machining with the advantages of automated manufacturing in a confined space. The Zenotec mini is a compact, high end mill which is perfect for entering into the digital workflow. The use of a 4-axis system top-quality high-speed spindle, integrated control electronics and control software make the Zenotec mini ideal for all jobs in your lab.

Benefits of both mills due to a coordinated digital processes:

- High processing characteristics and consistent quality
- Digital tools for individual design and construction
- Fast, high-quality machining due to material optimized milling strategies

Sintering Zenostar

The Programat® S1 1600 sintering furnace is engineered to provide the best outcomes with performance and efficiency. It reaches a high temperature of 1600°C for maximum translucency and can sinter single-unit copings in just 75 minutes and bridge frameworks in 90 minutes. The furnace's technologically advanced heating muffle is equipped with a new type of heating element specifically designed for intensive everyday use, a long service life and even heat emission. Additional features include power-saving technology to conserve energy, a user-friendly control panel with graphic display, a membrane sealed keypad for easy programming, and a multicolor Optical Status Display (OSD).
Cementation

Ideal for the cementation of Zenostar restorations, the following products are particularly recommended:

Ivoclean®

Before cementing the Zenostar restoration be sure to clean it after try-in with Ivoclean paste. While phosphoric acid may be used to clean the surface of glass ceramic restorations, its surface-deactivating effect on zirconium-oxide ceramics and base metal alloys inhibits bonding.

SpeedCEM®

For the quick and easy self-adhesive cementation of Zenostar restorations. SpeedCEM speeds up and simplifies the cementation procedure by eliminating the need to condition the tooth preparation and the application of a bonding agent.

Pre-operative situation. Patient requires a 3-unit bridge in the posterior. Due to its high strength and esthetics, Zenostar T was chosen for the restoration.

After try-in, clean the restoration with Ivoclean. Ivoclean should be allowed to react for 20 seconds then rinsed out. Dry the restoration before applying cement.

Dispense SpeedCEM into the prepared restoration and seat.

After seating, light cure each quarter surface for 1-3 seconds. The cement will achieve a gel-like consistency for easy clean up. Finish curing.

Final Zenostar T restoration.