all digital all options

WIELAND
ZENOSTAR®
The zirconia system

Creating
individual
esthetics

Zenostar MT
Zenostar T
Zenostar MO

ivoclar
vivadent
passion vision innovation
Creating individual esthetics with zirconium oxide

The Zenostar® system is composed of an integrated portfolio of materials for the creation of customized restorations made of zirconium oxide. Zenostar accommodates a wide range of processing options and therefore offers great flexibility in the fabrication of dental restorations.

State-of-the-art methods such as the Zenotec® CAD/CAM technique involve efficient working procedures and ensure reproducible results. Zenostar discs are made from high-quality raw materials using advanced manufacturing methods. The resulting material satisfies the most discerning requirements.
Economical
Optimized milling properties
for impeccable results

Versatile
Coordinated shades in
three levels of translucency

Efficient
Automated and enhanced
Zenotec CAD/CAM process

Esthetic
Full compatibility
with the IPS e.max® system

One system
Versatile processing options
for individual needs
Individualized disc system

The Zenostar system comprises a versatile range of discs. It includes discs in three different levels of translucency and in a variety of shades and thicknesses. From this broad selection, the most suitable disc for the indication and the esthetic requirements at hand is chosen. The shade designations and the shades of the Zenostar discs are matched to the IPS e.max shade scheme. Zenostar is the only zirconium oxide system that offers full shade compatibility with IPS e.max.

Versatile processing options

The Zenostar® systems features many different options for the efficient production of customized dental restorations made of zirconium oxide.

**Full-contour solutions**
- Polishing and glazing
- Staining technique using IPS Ivocolor, IPS e.max® Ceram, Zenostar Art Module
- Brush infiltration technique using Zenostar MT Color, Zenostar Color Zr

**Veneering solutions**
- Layering technique – partial and full veneers made with IPS e.max® Ceram
- Press-on technique using IPS e.max ZirPress
- Veneering Solutions CAD-on technique using IPS e.max CAD

Main features

- Biocompatibility
- Good mechanical properties
- Low thermal conductivity
- Minimal wear of polished surfaces
- Excellent resistance to hydrothermal aging
The Zenostar System

Full-contour

- Staining Technique
- Infiltration Technique
- Partial Layering Technique
- Layering Technique
- Veneering Solutions CAD-on Technique
Example of the brush infiltration of full-contour restorations made with Zenostar MT

- Infiltration of the cervical area
- Infiltration of the body
- Infiltration of the incisal edge
ZENOSTAR® MT

Zenostar MT offers an excellent solution for creating esthetic, full-contour restorations. The material’s high translucency imparts lifelike esthetics. As a result, Zenostar MT is particularly suitable for the fabrication of full-contour restorations in the anterior region. The special raw material formulation of the discs is responsible for the outstanding optical and mechanical properties.

Zenostar MT is supplied in the form of a white disc. The restorations can be customized with staining liquids. The new Zenostar MT Colour Liquids are matched to the A–D shade guide. The Impulse materials are provided for the characterization of restorations.

Shade:

MT 0

Indications:

- Monolithic single-tooth restorations in the anterior and posterior region
- Monolithic 3-unit bridges in the anterior and posterior region
- Single-tooth restorations and 3-unit bridges in the anterior and posterior region, fabricated with the cut-back technique

Sintering of the dried restoration
Even application of the glaze
Glaze firing
Zenostar T unites excellent optical properties with high strength. It is the ideal material for the fabrication of esthetic restorations composed of up to 14 units. The material is suitable for the creation of full-contour restorations – primarily in the posterior region – and restoration frameworks. It can also be used to produce combinations consisting of monolithic and partially and fully layered restorations. Zenostar T is available in seven shades. This simplifies the reproduction of the tooth colour.

Example of the staining of full-contour restorations made with Zenostar T

Polishing of the occlusal surfaces
Application of the staining liquid on the surface
Imitation of cutting areas with incisal stains
Shades:

- T 0
- T 1
- T 2
- T 3
- T 4
- T s
- T sc

Indications:

- Framework structures composed of up to 14 units
- Monolithic restorations composed of up to 14 units
- Restorations composed of up to 14 units, combining monolithic and partially and fully layered parts

Recreation of the fissures with Effect materials

Stained crown on a honeycomb tray

Even application of the glazing material after stains have been fired
Zenostar MO has been specially developed for the layering technique. The material’s high level of opacity successfully masks discoloured tooth structure and metal abutments. Zenostar MO is available in five shades. The frameworks can be veneered or pressed over to produce highly esthetic, individualized restorations.
Build-up of the tooth shape using Dentin materials.

Completion of the layering scheme using Incisal and Transpa materials.

Complete separation of the build-up before firing.

Shades:

- MO 0
- MO 1
- MO 2
- MO 3
- MO 4

Indications:
- Framework structures composed of up to 14 units.
Excellent performance in clinical use

Lee Culp, USA

The highly translucent zirconia material, and a full range of internal/external stains, allows me full creative control when fabricating esthetic, full-contour zirconia restorations.

Nelson Rego, USA

What I love about the new Zenostar concept is the ability to perfectly mimic IPS e.max shades. This allows me to create cases with multiple materials like IPS e.max Ceram and ZirPress that exceed the esthetic expectations of patients.

Matt Roberts, USA

I love the new more translucent, coloured zirconia from Zenostar. It allows me to choose a base shade, then highly characterize with stains prior to sintering. Once sintered, it polishes to a mirror finish, which exhibits great wear characteristics. The best part is that where I want to layer it, I only need minimal layering ceramic over the Zenostar to achieve exceptional esthetic results.
Zenostar is also an ideal material for large restorations. The combination of outstanding esthetic and physical qualities makes the material excellently suitable for the restoration of implant cases.

A reliable material in terms of shade and precision. With Zenostar, excellence can be achieved with ease.
Zenotec® mini

Programat® S1 1600

Zenostar programs are integrated in the Programat S1 1600 from software version V4.0.

High-tech CAD/CAM manufacturing

The Zenostar discs are machined with high-precision Zenotec milling equipment.

- Zenotec mini is a compact entry-level model, which can be used to mill many types of Zenostar restorations.
- Zenotec select hybrid is distinguished by its precision and productivity. The system combines state-of-the-art 5-axis milling with the benefits of automated manufacturing and space-saving design.

Coordinated digital processes offer the following benefits:

- High level of efficiency and consistent quality due to the integrated material database
- Digital tools for individualized design and construction
- Fast, high-quality manufacturing due to optimized milling strategies
- Optimum use of milling discs

Sintering – now up to 1600 °C

Zenostar restorations can be sintered with Zenotec Fire Cube and Zenotec Fire P1 as well as with the Programat® S1 1600. The light, compact Programat S1 1600 furnace has a speed sintering program (75 minutes). Additional programs for specific materials and indications offer highest efficiency.
One staining material for all IPS ceramics

IPS Ivocolor comprises a versatile staining and glazing assortment for the press, CAD and layering ceramics from Ivoclar Vivadent and for Zenostar from Wieland Dental. As a result, dental technicians need only one characterization and glazing assortment for their restorations. This increases the efficiency of the laboratory and ensures consistent high-quality results.

**The benefits of IPS Ivocolor for dental technicians:**

- Individual freedom in the characterization of restorations due to the selected colour compositions
- Simplified handling due to a new formulation of the pastes
- High gloss finish after firing at 710 °C
- Unadulterated glazing results – no grey or white discolouration
- Suitable for high and low-fusing IPS ceramics

Sound cementation

The following products are recommended for the cementation of Zenostar restorations:

**Ivoclean**
Paste for cleaning Zenostar restorations

**SpeedCEM**
The resin cement for fast and easy self-adhesive luting

For more information about cementation go to: www.cementation-navigation.com
all digital – all options

Customized digital solutions for every laboratory

All along the digital process chain, unparalleled solutions are offered, which comprise products and services for the CAD/CAM production of fixed and removable prosthetics. Dental laboratories have a wide choice of fully coordinated products including scanners, materials and equipment. The system is complemented by a comprehensive range of services. As a result dental laboratories benefit from optimized workflows and maximum productivity and flexibility.

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