

Керамические зубные имплантаты DENSILOX

Техническое описание

По вопросам продаж и поддержки обращайтесь:

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DENSILOX® ceramic implants are based on zirconia which demonstrates high hardness, high fracture strength and toughness^{1,2}. Carefully selected raw materials and strict quality control ensure clean implants with highest demands on surface purity.

Our ceramic implants and abutments are 100% metal-free, biocompatible oxide-based materials.^{3,4,5} You can select according to your requirements between the most commonly used Zirconia (TZP) and Alumina Toughened Zirconia (ATZ) ceramics. Additionally, you can opt for a Zirconia Toughened Alumina (ZTA) ceramics, already widely used for orthopedic applications.*



Our Ceramic Materials

ATZ

- Alumina Toughened Zirconia
- Zirconia matrix ceramic composite
- 100% metal-free
- Purity > 99,9%
- Resistant to corrosion
- Superior hardness
- High toughness
- Superior fracture strength

TZP

- Zirconia
- Monolithic ceramic material
- 100% metal-free
- Purity > 99,9%
- Resistant to corrosion
- High hardness

- Very high toughness
- High fracture strength
- Very low thermal conductivity
- Translucent

ZTA

- Zirconia Toughened Alumina
- Alumina matrix ceramic composite
- 100% metal-free
- Purity > 99,9%
- Resistant to corrosion
- Extreme hardness
- High toughness
- Extremely high fracture strength

Our Colour Range

- **DENSILOX® Natural white**
- **DENSILOX® Translucent white**
- **DENSILOX® Ivory**
- **DENSILOX® Gingiva pink**



Manufacturing and Quality

We support our business partners with outstanding manufacturing know-how and material expertise to address the challenge between design work and serial production. The brand DENSILOX® stands for expertise in ceramics and quality high-volume manufacturing with flexible production routes. Carefully monitored production and quality control are the key factors to meet the highest standards of quality and batch consistency of our products. All

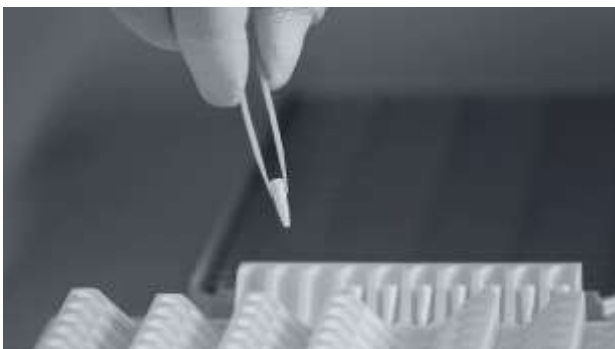
customized ceramic implant solutions produced in our facilities in Germany are certified with the 2024 CleanImplant supplier label.



Proven Cleanliness

Implants produced by CeramTec in Germany are tested thoroughly on a regular basis in an independent testing laboratory according to DIN EN ISO/IEC 17025:2018. The results of the analysis fully comply with the criteria for the Certified Production Quality following the consensus guideline of the CleanImplant Foundation Scientific Advisory Board, released in 2017.

CeramTec Medical is the first dental ceramic supplier to obtain this quality label.



All custom made DENSILOX® implants are class IIb implants (in the EU), manufactured and 100% inspected in our facilities in Germany. We have different manufacturing technologies on offer according to your preferences: Hard machining, green machining, ceramic injection moulding or a combination of the above. Our clean-room packaging ensures contaminant-free clean implants with the option of sterile packaging as an additional service. All customized ceramic implant solutions produced in our facilities in Germany are certified with the 2024 CleanImplant supplier label.

Conventional Manufacturing

Years of experience have made our conventional manufacturing (green machining, hard machining) the most responsive and efficient in the production of ceramic surgical implants.

We can also offer hybrid production routes according to your needs with a combination of green machining, hard machining and ceramic injection moulding.

- Implants (one piece or two piece)
- Abutments
- Semi-finished products

Ceramic Injection Moulding

Our CIM technology is fully integrated in our quality management system. CeramTec's ceramic injection moulding is processed under controlled environment.

CIM manufacturing technologies are the go-to choice for large volume production.

- Implants (one piece or two piece)
- Abutments
- Semi-finished products

CeramTec CIM Technology

Your Advantages at a Glance

- Proprietary feedstock
- Small, highly complex geometries
- Excellent surface finish
- Cost-effective technology
- Ability to produce net or near-net shape parts
- High and low volume manufacturing runs



Select from our Range of Surface Finishes

Successful dental implantation is primarily governed by good osseointegration. Rough surfaces have demonstrated to promote osseointegration. Sandblasting and acid etching are some of the most used surface treatments to generate micro- and nano-structured surfaces on dental implants to improve the implant's surface bioactivity. The symbiotic effect of sandblasting and acid etching creates a rough ceramic surface which accelerates osseointegration.¹



Sandblasting

Sandblasting is a mechanical treatment that creates small irregularities on the implant material and allows a roughening of the ceramic surface at micro-level. Further mechanical treatments on offer are grinding and polishing.



Acid Etching

The acid etching allows for optimal implant topography by preferentially dissolving the zirconia surface with controlled surface roughness, smooth-rough transition and fractal dimension.

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