Straumann® PURE Ceramic Implant System

Love your smile.
OUTSTANDING ESTHETICS
Favorable soft tissue attachment, high-end esthetic restorations

PROVEN QUALITY
High performance zirconia ceramic, 100 % proof tested
Nothing is better than a light-hearted and happy smile. The PURE Ceramic Implant System allows every patient to smile with confidence, without compromising on esthetics, reliability and the most natural-looking choice of material.

With the Straumann® PURE Ceramic Implant System you can give an esthetic, natural-looking and strong treatment to your patients. They will benefit from all the highly esthetic advantages of a natural-looking ceramic implant, ivory-colored like a natural tooth root and even in cases of thin gingiva biotypes not shining through. You can rely on our high-performance zirconia ceramic material, which is even stronger than the gold standard, grade-4 titanium implants.

The Straumann® PURE Ceramic Implant System is the result of more than 12 years of research and development to ensure the ceramic implants complied with our premium quality standards. They combine Swiss quality and precision, strength, clinical success and flexible treatment protocols in an innovative solution that helps you meet the needs of your patients.

The Straumann® PURE Ceramic Implant System is available as two-piece design in the endosteal diameter of 4.1 mm and monotype design in the endosteal diameters of 4.1 mm and 3.3 mm.

EXCEPTIONAL SURFACE
ZLA® surface with excellent osseointegration features

FLEXIBILITY
Flexible treatment protocols, digital pre-operative implant planning

INNOVATIVE
A solution that helps you expand your patient pool
A survey conducted in Europe with more than 250 participants showed that more patients would prefer a ceramic implant over a titanium implant even if it meant higher treatment costs and longer treatment times.

The inner connection of the PURE Ceramic Implant together with the respective Straumann® abutments especially developed for the Straumann® PURE Ceramic Implant combines reliable Straumann performance with highly esthetic results.

Prefer ceramic implants: 35% out of 250 people
Prefer metallic implants: 10% out of 250 people

Outstanding esthetics
- High-end esthetic restorations thanks to ivory colored natural ceramic material
- In general, more favorable soft tissue attachment around ceramic than around titanium, with blood circulation similar to that around natural tooth

Innovative
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Proven quality
- High-performance zirconia ceramic (Y-TZP) with higher fatigue strength than grade-4 titanium implants
- 100% proof test in which every single Straumann® PURE Ceramic Implant is tested mechanically before leaving the production site
- Excellent clinical performance with 97.5% survival and success rate after three years
Flexibility

- Choose your preferred implant shape (monotype or two-piece) and workflow (conventional or fully digital)
- Various prosthetic options are available*
- 100% metal-free restoration possible when using the Monotype
- Follows the Straumann surgical protocol; no additional surgical instruments needed
- Suitable for guided surgery** and guided implant placement*

ZLA® surface

- ZLA® is similar in macro and micro roughness to the original Straumann® SLA® surface
- Excellent osseointegration properties: Healing time comparable to well established SLA® 3,6,7
- Less plaque attachment – an important factor for long-term implant success*

* Straumann® PURE Ceramic Implant (two-piece)
** Straumann® PURE Ceramic Implant Monotype

* Straumann® PURE Ceramic Implant (two-piece)
** Straumann® PURE Ceramic Implant Monotype
Outstanding esthetic results with a surface that works

NATURAL CERAMIC

The Straumann® PURE Ceramic Implants have a natural-looking ivory color which most closely resembles the color of natural tooth roots. This gives a natural look even in thin gingiva biotypes.

FAVORABLE SOFT-TISSUE ATTACHMENT

The Straumann® PURE Ceramic Implant Monotype was placed in the esthetic zone, which demonstrated excellent esthetic outcomes with favorable soft tissue attachment. The papilla formation around the implant after the three year follow-up is pictured below. (Case courtesy of Dr. Stefan Röhling)

EXCELLENT OSSEOINTEGRATION FEATURES

Pronounced Fibrin network builds up on the ZLA® surface in vitro. Pictures courtesy of Dr. Rottmar (et al., 2018)

Bone cells growing on ZLA® surface. Pictures courtesy of Dr. Rottmar (et al., 2018)

Confocal laser scanning microscopy visualizing seeded bone cells and pronounced fibrin network in vitro on the ZLA® surface after incubation in human whole blood. Fibrin network (red), actin cytoskeleton (green), nuclei (blue). Pictures courtesy of Dr. Rottmar (et al., 2018)
OUTPERFORMING QUALITY

The Straumann® PURE Ceramic Implant System is designed to support greater loads than expected, demonstrating strength and the design integrity. In addition, every Straumann® PURE Ceramic Implant undergoes a proof test before it leaves the Straumann production facility. The Straumann® PURE Ceramic Implant 100% proof test is a unique process in the history of dental implant production and ensures an unprecedented level of quality assurance.
REFERENCES

5 A prospective clinical study to evaluate the performance of zirconium dioxide dental implants in sin (v0.1), Gellrich NC, Kniha H, Schild S, Weingart D, Gahlert M. A Prospective Clinical Study to Evaluate the Performance of Zirconium Dioxide Dental Implants in Single Tooth Gaps in the Maxilla and Mandible. 3-Year Results. Publication in preparation 2017.