



cercon smartceramics®

Zirconium oxide - all-porcelain restorations at their best

Information for patients

**Aesthetic,
all-porcelain restorations.**

A dream?

**Cercon makes the
dream come true.**

DeguDent

A Dentsply International Company

Strong, attractive, a Expect only the bes

Only few materials are like the diamond, the search for materials for dental restorations th other, strong. Also, the material must be bi material that has already proven itself in ma heat shield, the brake discs of sports cars, an Cercon® smart ceramics makes the use of dentistry a reality, thus opening a new persp rations. With Cercon®, it is possible to make and multiunit bridges for anterior (front) an teeth. Other applications in dentistry are in th we already expect successful test results.

nd compatible: t.

symbol of both beauty and strength. Yet we
at must be on the one hand, beautiful, on the
ocompatible. Zirconium oxide is a high-tech
ny extreme situations: in the space shuttle's
d the balls of artificial hip joints.

this high-tech ceramic in
ective on dental resto-
all-porcelain crowns
d posterior (back)
eir test phase and



Our know-how – high-tech for all-porcelain dentures.

In the past, the enormous hardness of zirconium oxide made processing intensive and time-consuming. This meant dentures made from zirconium oxide were simply unaffordable.

Only following the further development of research by the renowned Eidgenössische Technische Hochschule Zürich, Switzerland, is the economic use of this material possible.



SCAN AND MILLING UNIT

Following treatment by the dentist, the dental laboratory makes a wax frame for your “new teeth”. This wax frame becomes the pattern for a computer-aided milling machine, which then cuts the crown or bridge from a zirconium oxide blank. The restoration is then

given its final appearance by coating it with porcelain in the specific shade of your own teeth. To ensure this system works smoothly, all components come from a single manufacturer, DeguDent.



MILLED ZIRCONIUM OXIDE BLANK AND THE
SINTERED FRAMEWORK



PORCELAIN POWDER

If you would like to know more about the fascinating process with which Cercon smart ceramics dental restorations are made, please ask your dentist or dental laboratory.

The aim of every dental restoration: no reaction.

Did you know the skin on your back is 15 times more sensitive than the mucous membrane of the mouth? One reason allergy testing is often carried out on the back. The test results of our neutral porcelain are therefore obvious: Reactions to Cercon smart ceramics, even from sensitive people, are not to be expected. After all, even the extensive documentation available on zirconium oxide reports no known case of allergy so far. Interaction with alloys of other restorations present is also ruled out. In this way, your restoration will enhance your well-being and preserve your health.





Zirconium oxide has been in medical use for the last 25 years. This long-term study recommends this material for use even with sensitive patients.

Friendly to body and tooth in every aspect.

Cercon restorations have positive wearing characteristics: the surface of the veneering porcelain, Cercon® ceram kiss, reduces the build-up of plaque and in this way aids oral hygiene. Moreover, as porcelain is a good insulating material, there's no need to fear unpleasant sensations resulting from hot or cold food and drink.



Another favourable aspect of Cercon smart ceramics is the preservative treatment method. Thanks to its excellent strength values and depending on the specific clinical situation, the dentist can thus save more healthy tooth substance.

The sight of such a restoration will bring joy time and again.

During conversation, our gaze wanders frequently to the mouth. It is plain to see our teeth are therefore the centre of attention, and that we increasingly pay more attention to our appearance. When associating with people daily or at an interview for a new job, beautiful teeth will boost your charisma. Cercon smart ceramics allows restorations so life like they are hardly distinguishable from your natural teeth.



Life like in both shade and form.

As the words “all porcelain” indicate, Cercon smart ceramics does without metal frameworks. This is a great advantage to the aesthetics of your restoration, as the zirconium oxide framework material is white or ivory colored. The veneering porcelain Cercon ceramic supplies the means to match the frame to your neighbouring teeth, giving your restoration a life like appearance.

The combination with your natural teeth creates a harmonious overall picture, producing such a life like impression as if they were your own teeth.





FRONT AND REAR
CERCON RESTORATIONS

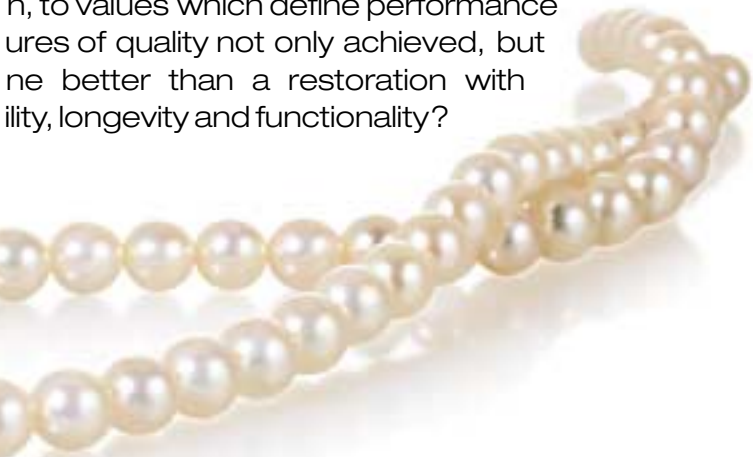
Value real quality high

Daily life repeatedly teaches us that all good quality extends beyond that which can be seen and longevity of the investment made. Measured newly defined. And what could you imagine uncompromisingly good aesthetics, compatibility



hly.

things have a price. Thereby, the measure of
n, to values which define performance
ures of quality not only achieved, but
ne better than a restoration with
ility, longevity and functionality?



The facts in summary.

AESTHETIC

- through the zirconium oxide framework Cercon® base
- through the purposely developed veneering porcelain Cercon ceram kiss
- through ideal adaptation to natural teeth
- through this true-to-nature form of restoration

COMPATIBILITY

- proven by approx. 25-year medical application of zirconium oxide
- no potential allergies documented in literature
- no interaction with other dental materials
- insulating characteristics against cold and heat
- smooth surface aids oral hygiene

LONGEVITY

- through high strength
- through high stability when minimum framework requirements are observed





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PRESENTED BY:

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