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Tetric EvoCeram®

Nano-optimized mouldable ceramic

ivoclar vivadent:
passion vision innovation

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EVOLUTION IS ONGOING – CLINICAL SUCCESS ADVANTAGE OF THIS PROCESS SELECTIVELY:

More than... TRADITION

Ivoclar Vivadent products have always been modelled on the natural characteristics of teeth.

The dental industry is characterized by the same driving force as what makes nature so immensely rich and diverse:

Evolution is ongoing. Every development raises the standard of technology.

The time has come for a new development: A new generation of Tetric Ceram has arrived – **Tetric EvoCeram,** the nano-optimized mouldable ceramic.

Competence IN COMPOSITES®

Tetric EvoCeram is based on the successful Tetric product line and features decisive technological advancements.



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IS ACHIEVED BY TAKING

Tetric EvoCeram®

More than... HOMOGENEOUS SHADING

Tetric EvoCeram, our high-quality state-of-the-art universal composite, is clearly **colour coded** to facilitate working procedures: The colour of the labels on the syringes and Cavifils for A–D shades are based on the VITA® shade system. Therefore, you can fully concentrate on your work. We have facilitated the shade selection procedure, allowing you to produce simply beautiful restorations.
A clearly arranged shade range, which offers the appropriate material for every requirement, is essential for working efficiently.

Clear WORKING PROCEDURE

Tetric EvoCeram is available in 19 shades, of which 11 are A–D shades. The different degrees of translucency of the dentin and enamel materials allow very natural-looking restorations to be created in posterior as well as anterior teeth. The highly translucent incisal shade and the light bleach shades offer additional creative possibilities.

Dentin shades:
A3.5 Dentin, A4 Dentin, B2 Dentin

Enamel shades:
A1, A2, A3, A3.5, A4
B2, B3
C1, C2, C3
D3

Highly translucent incisal shade: T

Bleach shades:
Bleach XL, Bleach L, Bleach M, Bleach I





Competence in Composites®

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THE TECHNIQUE OF USING FILLERS OF VARIOUS
Tetric EvoCeram®

More than... **INNOVATION**

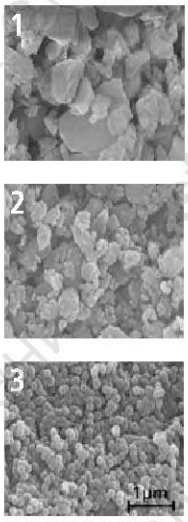
Tetric EvoCeram, the new universal composite for anterior and posterior teeth contains

- a well-balanced filler technology
- nano-colour pigments
- a nano-modifier.

Nano-particles are selectively used in Tetric EvoCeram. In other words, they are incorporated where they will be most effective.

WELL-BALANCED FILLER TECHNOLOGY

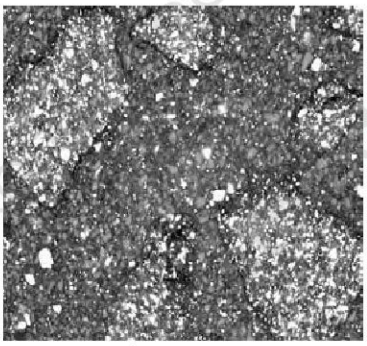
Fillers of different sizes are optimally combined and therefore offer you and your patients decisive advantages: The material is much easier to handle – you will feel the difference when you work with it.



SEM images
(30000x magnification):
1) Fillers 700 nm
2) Fillers 400 nm
3) Spherical mixed oxide 100 nm
In-house investigation R&D Ivoclar Vivadent AG, Schaan

Ceramic fillers of various sizes are responsible for the material's **strength,** its **exceptional polishing properties, high gloss** and **low wear.** A lower wear increases the longevity of your restorations. Tetric EvoCeram allows you to offer your patients a material that is very different from the original filling composites. In fact, it comes close to ceramics in terms of its quality and aesthetics. Tetric EvoCeram – the nano-optimized mouldable ceramic.

The **prepolymers** (ground composite of fillers combined with monomers and ytterbium fluoride) are responsible for the **extremely low shrinkage** and the significantly **reduced shrinkage stress** demonstrated by the material. These properties increase the marginal integrity of your restorations.



SEM image (2000x magnification):
The prepolymers are clearly recognizable (pre-shrunk ground composite made of fillers, monomers and ytterbium fluoride). The different filler particles (medium grey shade) embedded in the matrix are also easy to distinguish. Ytterbium fluoride particles are visible in between. Some have agglomerated (recognizable by the very light colour).
In-house investigation R&D Ivoclar Vivadent AG, Schaan

The patented filler **ytterbium fluoride** is responsible for the **exceptionally good radiopacity** of the material, which considerably facilitates the diagnosis of secondary caries.

Spherical mixed oxide, in optimized proportions, forms the basis for the correct **consistency** and **reduced wear.**
The appropriate selection of the individual components is responsible for the optimal light refraction, which heightens the **chameleon effect** and imparts a **lifelike translucency.** Therefore, your restorations will look very natural.

Natural teeth are fluorescent and a material which claims to be suitable for lifelike restaurations should also have fluorescence, and Tetric EvoCeram fulfils that demand.



Filtek Supreme is a trademark of 3M ESPE.

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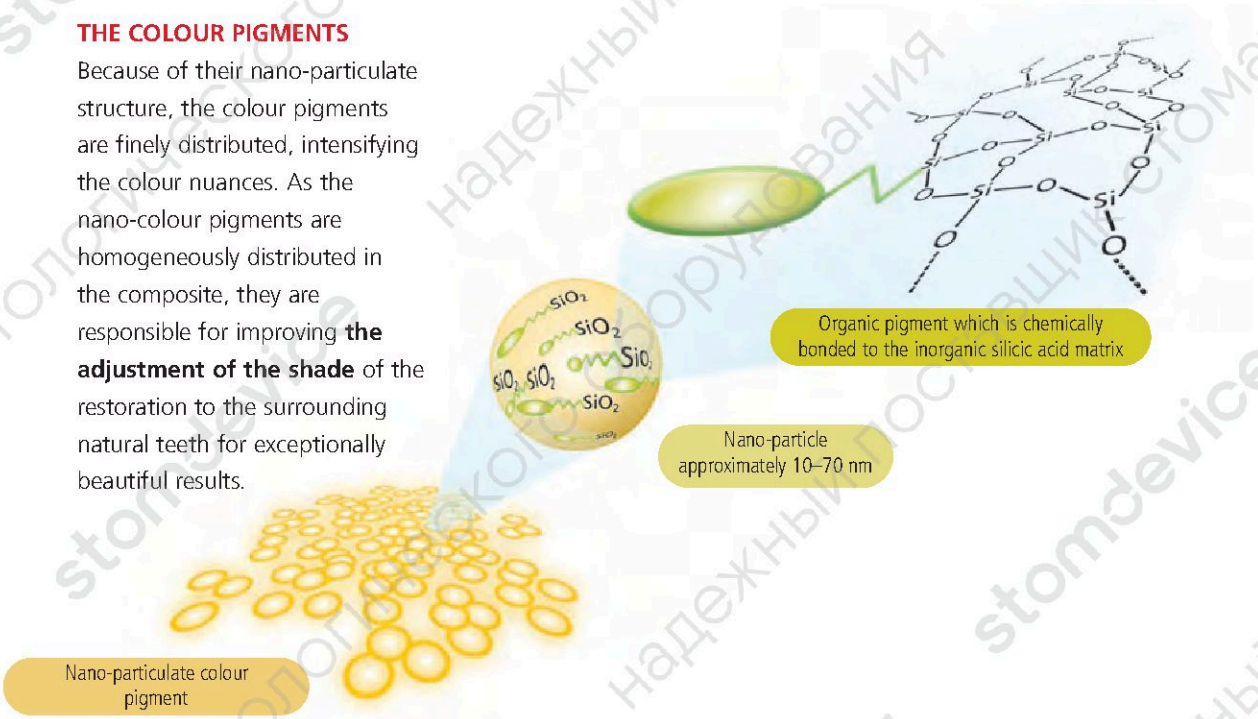
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SIZES HAS BEEN CLEVERLY USED IN

Nano-optimized TECHNOLOGY

THE COLOUR PIGMENTS

Because of their nano-particulate structure, the colour pigments are finely distributed, intensifying the colour nuances. As the nano-colour pigments are homogeneously distributed in the composite, they are responsible for improving **the adjustment of the shade** of the restoration to the surrounding natural teeth for exceptionally beautiful results.



THE NANO-MODIFIER

It is responsible for the **high stability** of the material and imparts it with **excellent modelling** properties. The material **does not stick** to instruments. This is an advantage that all practitioners will appreciate, as it enables them to work with greater precision.

The minimal polymerization shrinkage, low wear and easy polishing of Tetric EvoCeram are unique among the materials that are currently available on the market.

State-of-the-art has been redefined: **Tetric EvoCeram**.

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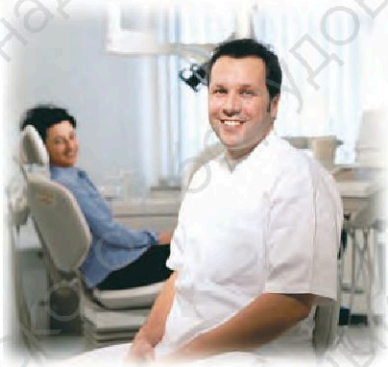
SUCCESSFUL DEVELOPMENTS ARE FOCUSED
Tetric EvoCeram®

More than... EXCELLENT HANDLING

Products of the Tetric Line have been synonymous with excellent handling for more than ten years.

We introduce improvements where they are needed.
The perceptible benefits of the new generation of materials are bound to impress you in no time at all.

Tetric EvoCeram will help you to achieve excellent results.



Excellent RESULTS

For years, dentists have been appreciating the convenient handling properties of Tetric Ceram. The handling of Tetric EvoCeram remains as convenient as with Tetric Ceram.

In addition, Tetric EvoCeram now produces better and faster polishing results. You will notice the long-lasting luster and your patients will appreciate the smooth surfaces of the restorations.

GET A GRIP ON COMPOSITES!

Innovative and invaluable aids from the Ivoclar Vivadent OptraLine



Defective amalgam filling in a lower molar



OptraGate – Simplifies the initial examination of patients and offers unimpeded access to the oral cavity during the subsequent preparation procedure.



OptraDam – With the anatomically shaped rubber dam without metal clamps, a completely dry operating field is achieved and both arches are fully exposed.



OptraMatrix + OptraContact – The selectively thinned matrix bands with an opening for the non-involved contact allow tighter and broader proximal contacts to be created. The hand-held instrument features



a patented forked working end with which a stabilizing "bridge" is formed while the first composite layer is cured. This "bridge" makes the proximal contacts tighter and larger.



OptraSculpt – Thanks to the reduced composite stickiness, the slightly elastic modelling tips allow easy sculpting and contouring.

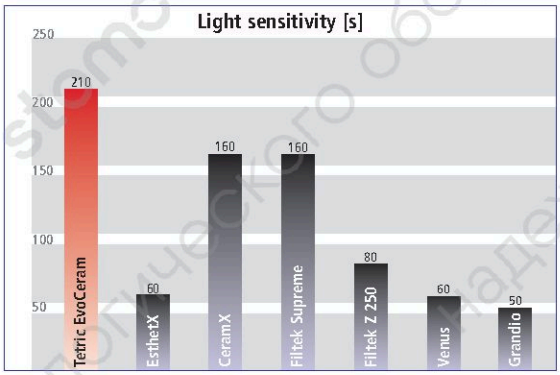


Situation after the restoration of a large Class I defect with Tetric EvoCeram. Finally, the restoration is polished with the new OptraPol polishing system.

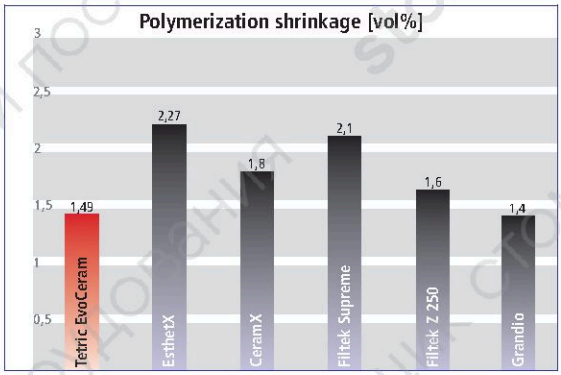


OptraPol – With the re-usable one-step polishing system, excellent polishing results are achieved.

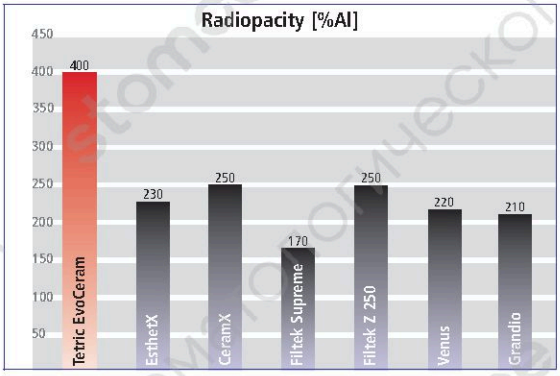
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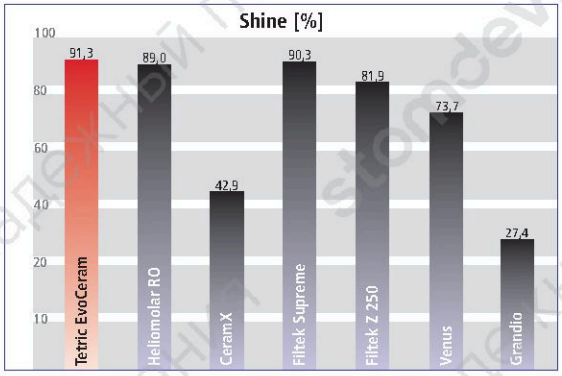
Light-curing composites start to polymerize under operatory lights and ambient light. If the material demonstrates low sensitivity to light, more time is available for contouring it. Ample time is available to process Tetric EvoCeram.
In-house investigation R&D Ivoclar Vivadent AG, Schaan (measured according to ISO 4049)



Low shrinkage during the polymerization of composites leads to less stress on the adhesive bond and lower deformation of the dental hard tissue and therefore improved quality of the margin. Tetric EvoCeram offers you exactly these benefits.
In-house investigation R&D Ivoclar Vivadent AG, Schaan (Dilatometer 1 h)



High radiopacity allows the composite to be clearly distinguished from the tooth structure and any changes in the dental hard tissue (eg secondary caries). The higher the value, the easier it is to distinguish the material from the tooth structure on X-rays. Tetric EvoCeram demonstrates advanced visible properties in this respect.
In-house investigation R&D Ivoclar Vivadent AG, Schaan (measured according to ISO 4049)



Astropol HP high gloss polishers achieve a high level of shine in only 30 seconds. The results are more than comparable to those achieved with pure micro and nano-filled composites. The shine of Tetric EvoCeram is lasting.
In-house investigation R&D Ivoclar Vivadent AG, Schaan

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VITA® is a trademark of VITA Zahnfabrik.

A selection OF THE ONGOING CLINICAL STUDIES ON Tetric EvoCeram

Name	Indication	Start
Prof Dr Jan van Dijken, Umea University, Sweden	Class I, II	April 2003
Prof Dr Paul Lambrechts, Leuven University, Belgium	Class I, II	November 2003
Prof Dr Reinhard Hickel / Dr Jürgen Manhart, Munich University, Germany	Class I, II	November 2003
Dr Mark A Latta, Creighton University School of Dentistry, Nebraska, USA	Class V	March 2004
Dr Carlos Munoz / Dr James Dunn, Loma Linda University, California, USA	Class III, IV	April 2004

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Tetric EvoCeram®

Nano-optimized mouldable ceramic

EXPERIENCE THE RESULT OF EVOLUTION
IN A MOULDABLE CERAMIC

DELIVERY FORMS

SYRINGES



System Pack 8x3 g / AdheSE®
1xA1, 1xA2, 1xA3, 1xA3.5, 1xA4, 1xB3, 1xC3, 1xD3
Shade guide
2.5 g AdheSE Primer Single Bottle
2.5 g AdheSE Bond Single Bottle
25 AdheSE Applicators green
25 AdheSE Applicators black
AdheSE Pad

Assortment 8x3 g
1xA1, 1xA2, 1xA3, 1xA3.5, 1xA4, 1xB3, 1xC3, 1xD3
Shade guide

Intro Pack 4x3 g / AdheSE
1xA2, 1xA3, 1xA3.5, 1xT
Shade guide
2.5 g AdheSE Primer Single Bottle
2.5 g AdheSE Bond Single Bottle
25 AdheSE Applicators green
25 AdheSE Applicators black
AdheSE Pad

3x3 g Refill
A1, A2, A3, A3.5, A4, B2, B3, C1, C2, C3, D3, A3.5 Dentin, A4 Dentin, B2 Dentin, T, Bleach XL, Bleach L, Bleach I, Bleach M

1x3 g Refill
A1, A2, A3, A3.5, A4, B2, B3, C1, C2, C3, D3, A3.5 Dentin, A4 Dentin, B2 Dentin, T, Bleach XL, Bleach L, Bleach I, Bleach M

CAVIFILS



System Pack 40x0.2 g / AdheSE
5xA1, 5xA2, 5xA3, 5xA3.5, 5xA4, 5xB3, 5xC3, 5xD3
Shade guide
2.5 g AdheSE Primer Single Bottle
2.5 g AdheSE Bond Single Bottle
25 AdheSE Applicators green
25 AdheSE Applicators black
AdheSE Pad

Assortment 40x0.2 g
5xA1, 5xA2, 5xA3, 5xA3.5, 5xA4, 5xB3, 5xC3, 5xD3
Shade guide

Intro Pack 40x0.2 g / AdheSE
10xA2, 10xA3, 10xA3.5, 10xT
Shade guide
2.5 g AdheSE Primer Single Bottle
2.5 g AdheSE Bond Single Bottle
25 AdheSE Applicators green
25 AdheSE Applicators black
AdheSE Pad

20x0.2 g Refill
A1, A2, A3, A3.5, A4, B2, B3, C1, C2, C3, D3, A3.5 Dentin, A4 Dentin, B2 Dentin, T, Bleach XL, Bleach L, Bleach I, Bleach M

Shade guide
With all 19 shades

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Manufacturer and distributor
Ivoclar Vivadent AG
Bendererstr. 2
FL-9494 Schaan
Principality of Liechtenstein
Tel +423 / 235 35 35
Fax +423 / 235 33 60
www.ivoclarvivadent.com

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