

# Tetric® N-Line

Composite for anterior and posterior restorations



The efficient  
solution  
for all cavities

Efficient  
Esthetics

ivoclar  
vivadent®  
passion vision innovation

# The efficient solution for all cavities

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The Tetric line of products offers four carefully matched composite materials for direct restorative treatments.

**Tetric® N-Ceram** is a mouldable universal composite for anterior and posterior restorations and **Tetric® N-Flow** is its flowable counterpart.

**Tetric® N-Ceram Bulk Fill** is a sculptable 4-mm composite for posterior restorations and **Tetric® N-Flow Bulk Fill** is its flowable counterpart.

Chameleon effect ensures  
**a natural shade blend**

**True-to-nature esthetics**  
for posterior restorations

**Time savings** of  
up to **55%**<sup>1</sup>

More than

# 110

million fillings placed<sup>2</sup>

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Up to  
**55%**  
time savings<sup>1</sup>

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<sup>1</sup> Compared with Tetric® N-Flow and Tetric® N-Ceram; Data available on request.  
<sup>2</sup> Based on sales figures

# Chameleon effect ensures a natural shade blend

If you want to replace lost tooth structure with a natural-looking esthetic restoration, you will require materials designed to mimic the light optical properties of the natural enamel and dentin as closely as possible.

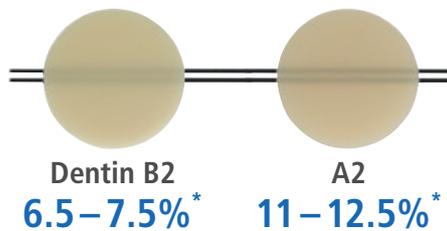
## One universal enamel shade for small defects

In most clinical cases, one enamel shade is adequate for achieving an esthetic, lifelike restoration.

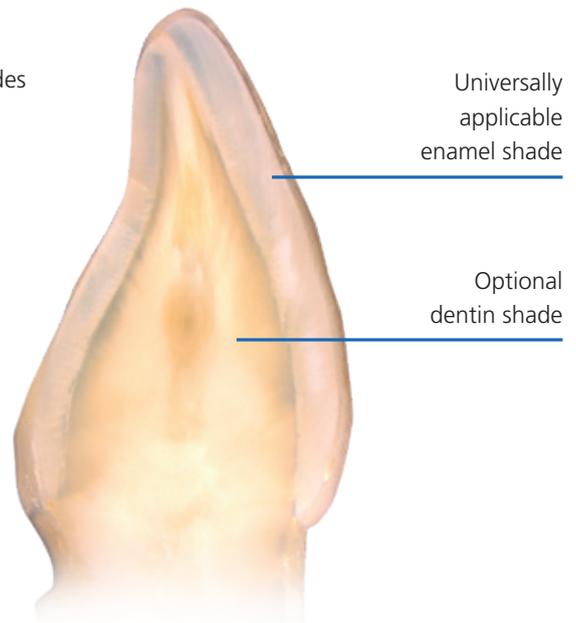
## Additional dentin shades for large defects

Both Tetric N-Ceram and Tetric N-Flow offer various dentin shades with a low translucency to restore large defects or cavities with heavily stained dentin surfaces.

## Tetric® N-Ceram – Graduated translucency for easy build-up using only a few materials



\* Example values



## Fractured anterior tooth restored with Tetric® N-Ceram



Dr Ali Haydar Özoğlu, 2013  
Adana, Turkey



Final situation



### Chameleon effect

The special monomer and filler mixture is responsible for the very good chameleon effect. This effect ensures a natural shade blend with the surrounding dentition.

The refractive index of the monomer matrix matches that of the fillers - in this case, of the glass rod. It appears nearly invisible.

## Posterior restoration made with Tetric N-Ceram Dentin B2 and Tetric N-Ceram A2

Courtesy: Dr Almaraz Aydee, Mexico, 2018



Original situation



Final situation

# True-to-nature esthetics for posterior restorations

The 4-mm composites Tetric N-Ceram Bulk Fill and Tetric N-Flow Bulk Fill allow you to achieve the same esthetic results in the posterior region as with conventional composites.

## One-step posterior tooth filling made of Tetric® N-Ceram Bulk Fill



Dr Eduardo Mahn, 2015  
Santiago, Chile



Final situation



The highly reactive, patented light initiator **Ivocerin®** has paved the way for the development of Tetric N-Ceram Bulk Fill and Tetric N-Flow Bulk Fill for esthetic posterior restorations.

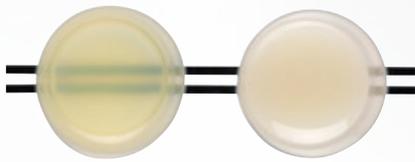
Conventional composites designed for the placement of large increments are often very translucent. Ivocerin-containing composites offer enamel- and dentin-like translucency levels and up to 4-mm increment placements whilst achieving a reliable depth of cure.



The **Aessencio® technology** represents a milestone in the esthetic optimization of 4-mm composites. The material features a high initial translucency to achieve the desired depth of cure. Whilst polymerizing, it gradually changes to a more opaque shade. In the case of Tetric N-Flow Bulk Fill, the final translucency is below 10% – a value that is very close to that of natural dentin. This allows stained tooth structure to be concealed effectively.



The *in-vitro* test demonstrates the effect of the Aessencio technology: The black lines under the Tetric N-Flow Bulk Fill sample are clearly visible before light-curing. After curing, they are completely masked due to the change in translucency:



Tetric® N-Flow Bulk Fill before and after polymerization

#### **Well-matched materials:**

The different consistencies and shades are uniquely formulated to be used in any combination. Very lifelike posterior restorations are possible, for example, when Tetric N-Flow Bulk Fill and Tetric N-Ceram are combined.



# High process reliability and fewer increments

Tetric N-Ceram Bulk Fill and Tetric N-Flow Bulk Fill combine the advantages of both a streamlined application protocol with the high process reliability of conventional composites.

Since the thickness of the layers can be increased up to 4 mm<sup>1</sup>, fewer layers are required compared to the conventional layering technique. These are optimum conditions for you to minimize application errors.

**High process reliability** during application

**Reduced risk** for process-related air entrapment

**Reliable curing** of layers of up to 4 mm



**Fewer working steps**

**High process reliability**

<sup>1</sup> The maximum layer thicknesses recommended for Tetric N-Ceram Bulk Fill and Tetric N-Flow Bulk Fill have been increased from 2 mm (conventional treatment protocol) up to 4 mm.

# Time-tested quality and durability

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The Tetric range of products combines proven product features with state-of-the-art technology. The first protagonist of this range, Tetric N-Ceram<sup>®</sup>, has been successfully used in clinical applications for over ten years.



**High radiopacity**  
of up to 400% Al

**Low shrinkage stress**  
of e.g. 2.1% in the case of Tetric N-Ceram Bulk Fill

**Long processing times**  
of more than 3 minutes\*

**High flexural strength values**  
e.g. Tetric N-Ceram Bulk Fill: 119 MPa\*\*

\* According to ISO 4049  
\*\* Measured by Ivoclar Vivadent

“ Tetric N-Line has been a part of our day-to-day practice for almost a decade now. The long-lasting esthetics achieved with the Tetric N-Ceram composite range helps us to exceed the expectations of our patients. The high quality of the composite is the secret behind the smiles we create. ”

**Prof. Mohan Bhuvaneshwaran**  
Chennai, India



# The esthetic and efficient solution for class I and II cavities

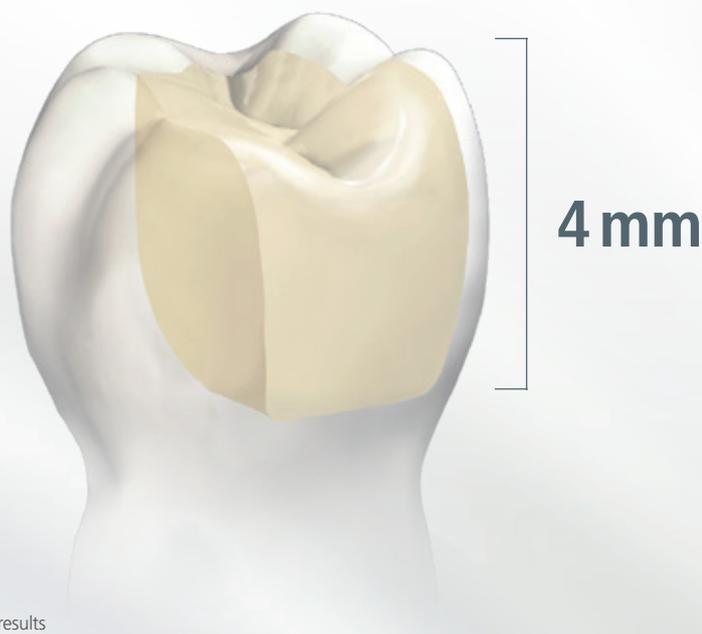
The Tetric N-Line comprises not only conventional, but also bulk-fill composites with which cavities of a depth of 4 mm can be filled using only one layer of restorative material. As a result, esthetic results are achieved in up to 55%\* less time than that required for the conventional technique.

Tetric N-Ceram Bulk Fill and Tetric N-Flow Bulk Fill are available in three universal shades: <sup>IV</sup>A, <sup>IV</sup>B and <sup>IV</sup>W\*\*. Depending on the clinical situation at hand, the two bulk-fill materials can be combined with Tetric N-Flow or Tetric N-Ceram.

## Fewer steps thanks to 4-mm increments:



\* Compared with Tetric® N-Flow and Tetric® N-Ceram  
Data available on request  
\*\* IV is the abbreviation of Ivoclar Vivadent



Save  
**55%**  
on time\* and achieve amazing results

# Applications of Tetric N-Line

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# Efficient esthetics – even better together

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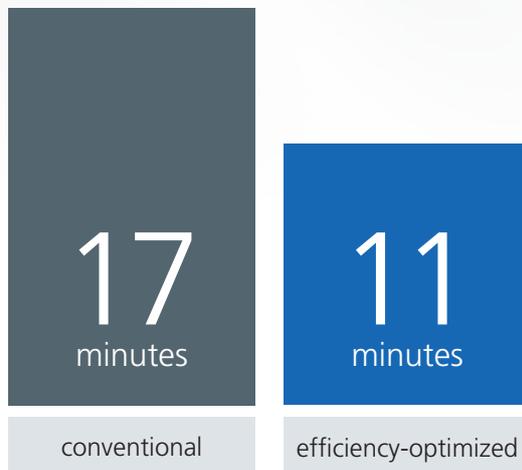
The efficiency of the treatment procedure can be enhanced even further by combining the Tetric N-Line with other state-of-the-art products from Ivoclar Vivadent.

**3** instead of **2**  
**patients**

treated in the same amount of time  
without compromises in quality

**Save valuable time during  
appointments.**

The diagram compares the time scheduled  
for conventional and efficiency-optimized  
treatment protocols to place class II resto-  
rations.





## Efficient Esthetics

Products that are optimally coordinated for direct restorative procedures enhance the efficiency with which high-quality esthetic restorations can be achieved.



### 1 Isolate

Effective isolation with **OptraGate**®, cotton rolls and saliva ejector



### 2 Bond

Direct intraoral application of **Tetric® N-Bond Universal** with the efficient VivaPen®



### Restore

**Tetric® N-Line** – the efficient solution for all cavities

# 3



### 4 Contour

Time-saving contouring with **OptraSculpt**® due to its anti-stick effect



### 5 Cure

Reliable and fast curing with the **Bluephase**® curing units



### 6 Polish

High-gloss polishing in only one step with **OptraGloss**®

# Tetric® CAD – the esthetic composite block

Tetric CAD is an esthetic composite block for the efficient fabrication of indirect single-tooth restorations by means of the CAD/CAM technique. Due to the material's excellent chameleon effect, Tetric CAD restorations blend seamlessly with the remaining natural tooth structure.

Tetric CAD ideally complements the Tetric N-Line range of conventionally layered composite resins for inlays, onlays, veneers and crowns. Immediately after grinding, the restorations are polished and then seated using an adhesive cementation protocol. This processing technique is very efficient and allows esthetic results to be achieved quickly and easily.

The blocks are available in two translucency levels: MT (Medium Translucency, recommended for laminate veneers and crowns), which is available in five shades, and HT (High Translucency, recommended for inlays and onlays), which is available in 4 shades. While the small size I12 block is suitable for inlays, the large block C14 provides sufficient material for a crown.



“ Tetric CAD is fast and easy to process. After the restoration has been ground, it can be polished to a high gloss in no time. ”

**Dr Lukas Enggist**  
Ivoclar Vivadent, Schaan, Liechtenstein

Tetric composites	Tetric CAD
Direct restorations	Indirect restorations
Class I – V	Inlays, onlays, veneers, crowns

# Delivery forms



## Tetric N-Line Composites

### Tetric® N-Ceram – The universal composite

<b>Refills</b>	available as 1x 3.5-g syringes and 10x 0.25-g Cavifils in the following shades: <b>Enamel shades (12%<sup>1</sup>):</b> A1, A2, A3, A3.5, A4, B1, B2, B3, C2, C3, D3 <b>Dentin shades (7%<sup>1</sup>):</b> A2 Dentin, A3.5 Dentin, B2 Dentin <b>Highly translucent enamel shade (15%<sup>1</sup>):</b> T <b>Highly translucent Bleach shades:</b> Bleach Light (L), Bleach Incisal (I), Bleach Medium (M)
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### Tetric® N-Flow – The universal flowable composite

<b>Refills</b>	available as 1x 2-g syringes and 10x 0.25-g Cavifils in the following shades: <b>Enamel shades (12%<sup>1</sup>):</b> A1, A2, A3, A3.5, A4, B2 <b>Dentin shades (7%<sup>1</sup>):</b> A3.5 Dentin <b>Highly translucent enamel shade (23%<sup>1</sup>):</b> T <b>Highly translucent Bleach shades:</b> Bleach Light (L), Bleach Incisal (I)
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### Tetric® N-Ceram Bulk Fill – The sculptable 4-mm composite

<b>Refills</b>	available as 1x 3.5-g syringes in the following shades: <b>Universal shades (15%<sup>1</sup>):</b> IV <sub>A</sub> , IV <sub>B</sub> , IV <sub>W</sub>
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### Tetric® N-Flow Bulk Fill – The flowable 4-mm composite

<b>Refills</b>	available as 1x 2-g syringes in the following shades: <b>Universal shades (&lt; 10%<sup>1</sup>):</b> IV <sub>A</sub> , IV <sub>B</sub> , IV <sub>W</sub>
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<sup>1</sup> Translucency (sample values), Technical Data Sheet Ivoclar Vivadent

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