

IPS d.SIGN®

DENTIST



d.SIGN NATURAL BEAUTY



FLUORAPATITE-LEUCITE  
GLASS-CERAMICS

ivoclar  
vivadent®  
technical

# INSPIRED BY NATURE – BRILLIANT FEATURING LIFELIKE CHARACTERISTICS



d.SIGN NATURAL BEAUTY

## A well-groomed appearance ...

We are attracted to other people not only because of their personality, but also because of their appearance. We are working in a field which is dedicated to restoring the characteristic beauty of individuals. Discerning patients have come to expect a lot of our materials and **your services.**

## ...your patients insist on it

Ivoclar Vivadent has spent a great deal of time carefully analyzing the needs of your patients and customers and has developed a comprehensive restorative system to fulfil these requirements. It comprises the following components:

- IPS d.SIGN veneering ceramics
- A range of matching alloys
- Vivaglass CEM cementation system

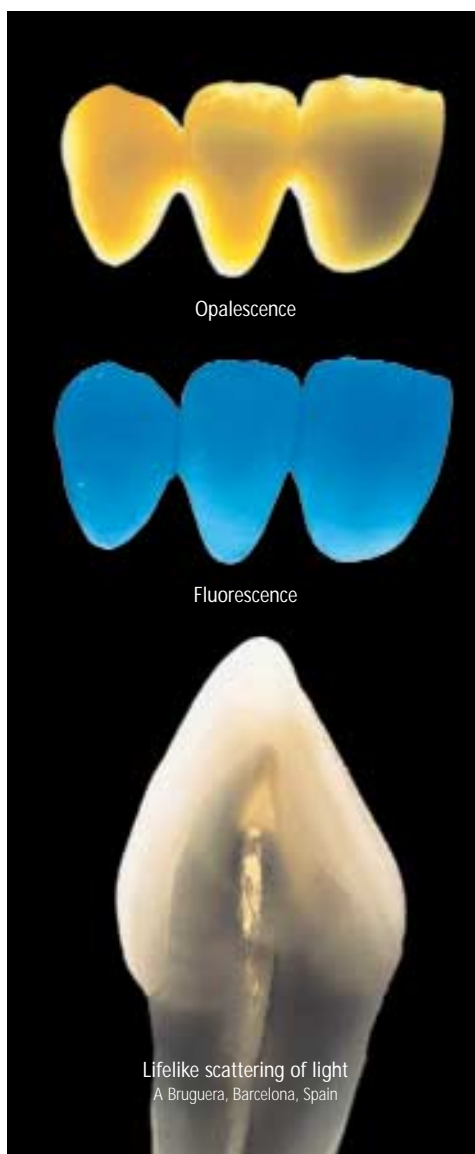


# LIANT GLASS-CERAMICS CHARACTERISTICS

## Beauty is individual

Highly aesthetic restorations that imitate the natural tooth are achieved with just a few IPS d.SIGN materials. In addition, a wide range of characterization materials is available for personalizing each restoration. As all teeth are different, customized and flexible solutions are needed to restore them. The new fluorapatite-leucite glass-ceramics feature a number of properties that are copied from natural teeth:

- High shade consistency
- True-to-nature fluorescence
- Opalescence
- Brightness

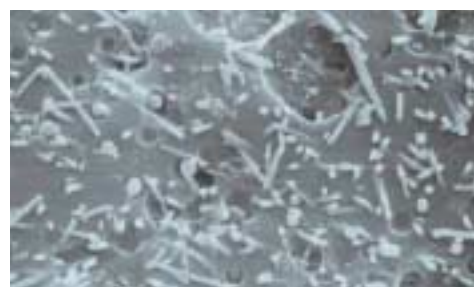


## Physical background

Nature provided the fine example according to which the highly aesthetic glass-ceramics with true-to-nature properties have been developed.

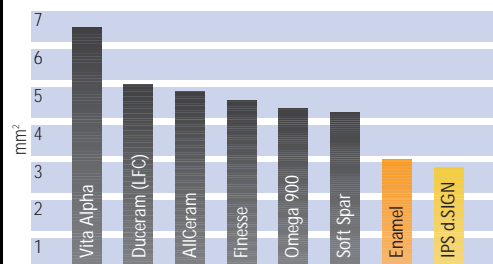


SEM – natural tooth



SEM – IPS d.SIGN (after acid etching of the surface)

The wear data gathered for IPS d.SIGN is decidedly better than that of conventional feldspar ceramics. The wear of antagonists is substantially reduced.



Bar diagram showing the wear of antagonistic enamel of various types of dental ceramics

John A Sorensen, DMD, PhD (1999)  
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Duceram (LFC) and AllCeram are registered trademarks of Degussa. Finesse is a registered trademark of Dentsply/Ceramic and Soft Spar is a registered trademark of Pentron.

# COORDINATED COMPONENTS

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## Conventional preparation

Straightforward conventional preparation is requisite for the placement of IPS d.SIGN restorations. Ceramic shoulders allow precision restorations with demanding gingival areas to be achieved.

## IPS d.SIGN – an absolute gem

The extensive IPS d.SIGN assortment comprises a wide range of lifelike shades from the proven Chromascop and A-D systems. The high-quality fluorapatite-leucite glass-ceramic features high shade consistency, true-to-nature fluorescence and opalescence. Consequently, highly aesthetic restorations whose optical and functional characteristics closely resemble those of natural teeth can be fabricated with this convenient material.



# S FROM ONE MANUFACTURER

## Nine matching alloys

A range of alloys has been specially developed for use with IPS d.SIGN. It includes high gold, reduced gold and base metal alloys. The biocompatibility of these alloys has been thoroughly tested and certified. The alloys comply with international standards.

Seven precious metal alloys and two base metal alloys allow restorations to be fabricated for a wide spectrum of indications.

IPS d.SIGN 98	high gold alloy
IPS d.SIGN 96	high gold alloy
IPS d.SIGN 91	reduced gold alloy
IPS d.SIGN 84	palladium-based alloy
IPS d.SIGN 67	palladium-based alloy
IPS d.SIGN 59	palladium-based alloy
IPS d.SIGN 53	palladium-based alloy
IPS d.SIGN 30	cobalt-chromium alloy
IPS d.SIGN 15	nickel-chromium alloy



## Translucent cementation material

A translucent cement is optimal in challenging situations. Vivaglass CEM PL demonstrates an exceptionally high degree of translucency compared with competitive products and therefore produces highly aesthetic results in the cementation of exposed ceramic shoulders. It is the ideal cement for aesthetic dentistry.

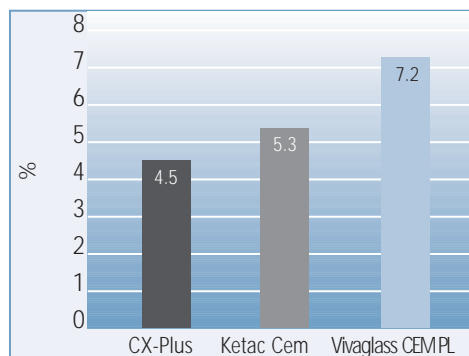
### Vivaglass CEM offers the following advantages

- ⊕ High translucency
- ⊕ Good bonding values on dentin
- ⊕ Easy mixing/thorough wetting
- ⊕ Minimal solubility
- ⊕ Continuous fluoride release
- ⊕ Radiopacity
- ⊕ Outstanding flow properties
- ⊕ Low film thickness
- ⊕ High compressive strength
- ⊕ Light shade

Vivaglass CEM PL

Ketac-Cem

CX-Plus



### Translucency

The high translucency of the material in combination with the light shade of the cement is highly desirable wherever aesthetic results need to be achieved.

In-house investigation, R&D Ivoclar Vivadent Schaan  
CX-Plus is a registered trademark of Shofu. Ketac Cem is a registered trademark of 3M/ESPE.

## Exceptional polishing results

Because of the outstanding physical properties of IPS d.SIGN ceramics, restorations made of these materials can be efficiently finished and quickly polished once they have been seated. The restorations fit impeccably and therefore help to streamline working procedures in the practice. Once they have been cemented, the restorations can be polished with commercially available polishers (eg Astropol from Ivoclar Vivadent).



A translucent cement is ideal for ceramic shoulders.

A Bruguera, Barcelona, Spain



# IPS d.SIGN – THE MATERIAL DENTISTS ARE TALKING ABOUT



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## DENTISTS

### Dr R Winter, Newport Beach, USA



«IPS d.SIGN ceramic has created new possibilities for the dental professional who wishes to provide patients with an easy to use restorative material that simulates natural dentition in every

respect – light refraction, beauty and wear compatibility.»

### Dr U Brodbeck, Zurich, Switzerland



«IPS d.SIGN achieves an amazing effect of depth, even in very thin layers. This allows outstanding aesthetic results to be achieved, even in situations where space is limited.»

### Dr G Unterbrink, Triesen, Liechtenstein



«Easy to adjust the occlusion and repolish – the way this material fits, this is really important.»

## DENTAL TECHNICIANS

### V Brosch, Essen, Germany



«Ceramic veneering materials should imitate the physical, colour and light-optical characteristics of natural tooth structure as closely as possible. If a material partially or entirely lacks these

properties, a sophisticated layering technique has to be used to compensate for this deficiency. That's why I work with IPS d.SIGN.»

### C Broseghini, Pergine Valsugana, Italy



«My clinical experience with the IPS d.SIGN glass-ceramic has convinced me of the biocompatibility of the material with soft tissue. Furthermore, the material achieves highly aesthetic effects in

different light conditions. These effects must be attributed to the presence of fluorapatite crystals.»

### A Bruguera, Barcelona, Spain



«It is easy to integrate a crown made with IPS d.SIGN into the oral environment, as this material reflects light and exhibits translucency similar to that of natural teeth. IPS d.SIGN enables me to achieve outstanding results.»

### G Ubassy, Rochefort du Gard, France



«The phenomenon of metamerism often associated with metal-ceramic restorations hardly occurs with IPS d.SIGN.»

# DENTAL PROFESSIONALS ARE

## D Cornell, Newport Beach, USA



«No other metal-ceramic today reproduces the look of natural tooth structure so faithfully.»

## S Kataoka, Osaka, Japan



«IPS d.SIGN is a breakthrough ceramic made of innovative materials. This product has a natural apatite-like crystal structure, which imparts true-to-nature properties in terms of hardness, surface texture and shade based on (ideal) light incidence and reflection. IPS d.SIGN enables us to make 'natural teeth'.»

## E Steger, Bruneck, Italy



«This fluorapatite glass-ceramic looks like the real thing in the oral cavity. Only natural teeth have shown such properties so far. Congratulations on the development of this material.»

## O Brix, Frankfurt, Germany



«The fluorapatite-leucite glass-ceramic IPS d.SIGN combines efficiency and creativity in metal-ceramic applications. The brightness of the material as well as its ability to transmit light has been copied from natural teeth. These properties have been effectively incorporated into the ceramic material. The material's outstanding light-scattering and masking capabilities allow successful restorations to be fabricated, even in situations where space is limited.»



Before



After

C Broseghini, Pergine Valsugana, Italy



Before

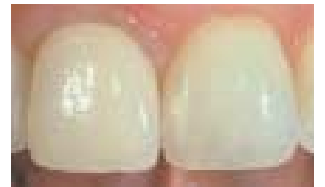


After

A Bruguera, Barcelona, Spain



Before



After



Before



After

Dr R Winter, Newport Beach, USA



Before



After

Dr U Brodbeck, Zurich, Switzerland

# IPS d.SIGN®

## FLUORAPATITE-LEUCITE GLASS-CERAMICS

The most convenient way of informing  
your dental laboratory and your  
patients:

This brochure is also available in a version  
tailored to dental technicians and one writ-  
ten specifically for patients.



For more information about our products,  
please contact Ivoclar Vivadent directly or  
visit our website.

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