

IPS Style®

MAKE IT YOUR!
STYLE YOUR!

Tips & Tricks



ivoclar
vivadent®
passion vision innovation

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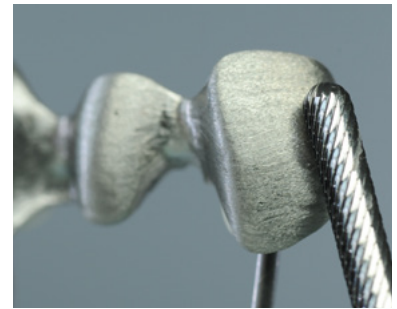
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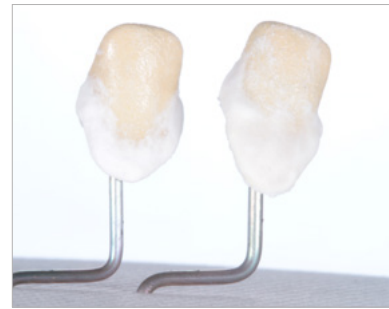
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Material



General materials science

IPS Style® is an innovative ceramic system designed for the fabrication of metal-ceramic restorations – from anterior crowns to multiple-unit bridges.

IPS Style is a feldspar-free veneering material that emulates the high qualities of feldspar ceramics and even outperforms the latter as it is fired at a lower temperature and thereby offers an extended range of applications and increased reliability. In addition, IPS Style sets new standards in terms of esthetics.

The metal-ceramic material is suitable for veneering dental alloys with a coefficient of thermal expansion in the range of $13.8\text{--}15.2 \times 10^{-6}/\text{K}$ ($25\text{--}500^\circ\text{C}$). It can therefore be used for a versatile range of indications.

Crystals science

The low-fusing metal-ceramic IPS Style is the first dental ceramic that contains oxyapatite crystals in its formulation, combined with leucite and fluorapatite. These three crystalline phases fulfil a range of different functions in the glass-ceramic and enable the fabrication of restorations that offer a high firing stability, optimized shrinkage behaviour and natural-looking esthetics.

Close-up of the crystals contained in IPS Style®:

Crystalline leucite

Controlled expansion and strength

(approx. 8,200-fold magnification)



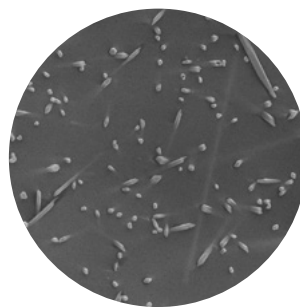
Leucite (KAlSi_2O_6) provides the material with controlled expansion characteristics and high strength. The coefficient of thermal expansion of the glass-ceramic can be adjusted by varying the proportion of leucite.

The distribution and size of the leucite crystals inhibit crack propagation. These features explain why leucite is a proven component employed in most metal-ceramic materials, e.g. IPS InLine®, for conventional alloys.

Fine needle-like fluorapatite

Lifelike basic brightness, vitality and vibrancy

(approx. 10,000-fold magnification)



Fluorapatite ($\text{Ca}_5(\text{PO}_4)_3\text{F}$) imparts vitality and heightened brightness to restorations due to the scattering and diffuse reflection of light.

This increase in brightness prevents the ceramic from looking grey and is not affected by the number of firing cycles needed to complete the restoration. Fluorapatite has been used previously to achieve a similar effect in the IPS d.SIGN® metal ceramic.

Needle-shaped oxyapatite

Selective control of translucency and opacity

(approx. 10,000-fold magnification)



Translucency is controlled mainly by adjusting the amount of oxyapatite in the ceramic. Oxyapatite crystals ($\text{NaY}_9(\text{SiO}_4)_6\text{O}_2$) are contained in all the shaded components of the IPS Style® range.

Oxyapatite crystals enhance the depth effect of restorations due to their exceptional capabilities of reflecting light.

Material

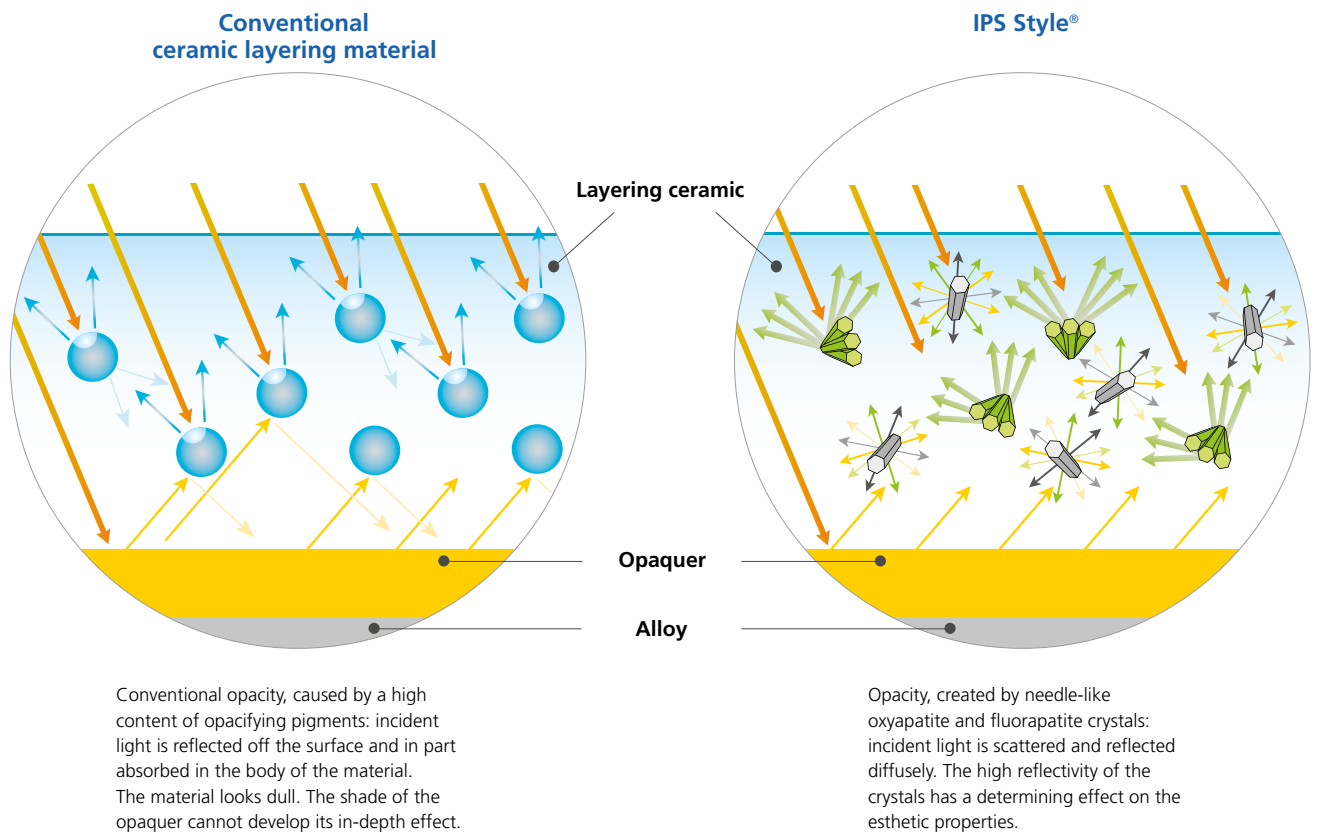
The effect of oxyapatite

While opacity levels are conventionally adjusted by pigments, the opacity of IPS Style is controlled by oxyapatite crystals. All the shaded components of the IPS Style range contain oxyapatite crystals: The lower the amount of oxyapatite crystals, the more translucent is the material.

For instance, Transpa Neutral contains hardly any oxyapatite crystals. In contrast, the concentration of oxyapatite is especially high in the opaquer, which is required to provide excellent masking capabilities. As a result, excellent shade effects can be achieved – irrespective of whether the paste or powder opaquer is used.

Oxyapatite crystals reflect incident light very strongly and even in low concentrations contribute to a deep-seated shade effect. Some light interacts with the fluorapatite crystals and in doing so reaches the opaquer. The oxyapatite and fluorapatite crystals contained in the opaque layer reflect the light again and scatter it diffusely. In this way, the shade of the opaquer travels to the outer layers of the restoration and becomes an integral component of the shade and light management of the entire ceramic restoration. The result: a deep-seated shade effect and high vibrancy.

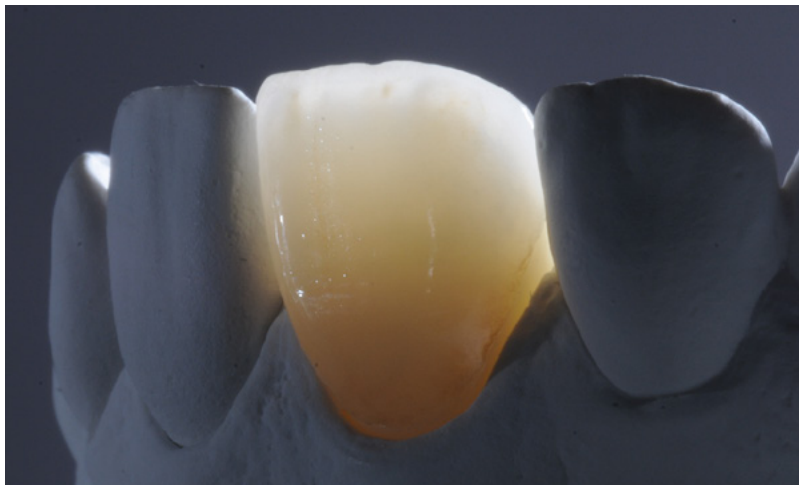
Schematic diagram:



Biocompatibility

A material is compatible with living tissue (biocompatible) if it does not produce an interaction, or only a negligible interaction, with the body. Like any dental material, the new IPS Style ceramic must be biocompatible. This also applies to the alloys and luting composites used in combination with IPS Style.

Biocompatibility is tested and assessed on the basis of standards that prescribe defined test methods. IPS Style has passed all the required toxicity tests. The metal-ceramic is therefore considered to be biocompatible.



Picture: Oliver Morhofer, MDT, Germany

Shade



A–D shade system / 3D MASTER

IPS Style is supplied in the A–D shades. A shade combination chart is available from our sales reps to facilitate the conversion to the 3D MASTER shade system. The table below provides an overview of the most popular 3D MASTER shades:

Desired shade 3D MASTER shade system	Required materials IPS Style®			
	IPS Style® Ceram Powder Opaquer	Mixing ratio for the dentin layer		IPS Style® Ceram Incisal
2M2	O A1	$\frac{1}{4}$ D A1	$\frac{3}{4}$ D A2	I 1
2M3	O A1	$\frac{1}{4}$ D A2	$\frac{3}{4}$ D B3	I 2
3M2	O D3	$\frac{1}{2}$ D A3	$\frac{1}{2}$ D D3	I 3
3M3	O B4	D B4		I 3

Note: The combinations and mixing ratios indicated in the table above are intended to be used as a reference only. Users may have to adjust them to meet individual requirements.

In perfect harmony: IPS e.max® and IPS Style®

The IPS Style metal-ceramic and the IPS e.max all-ceramic materials harmoniously blend in with each other when used side by side in the same patient. Complex clinical cases can be solved using a variety of materials to provide the most ideal treatment. There are four features that make this possible:

- 1 Coordinated shade system: for a harmonious overall appearance
- 2 Intuitive handling: the layering materials deliver stability during application and excellent firing properties
- 3 Identical soft tissue design: coordinated shades and shade designations (Gingiva Solution)
- 4 Identical range of stains and glazes: IPS Ivocolor



Tooth 11: IPS Style®; Tooth 21: IPS e.max®
Picture: Oliver Morhofer, MDT, Germany

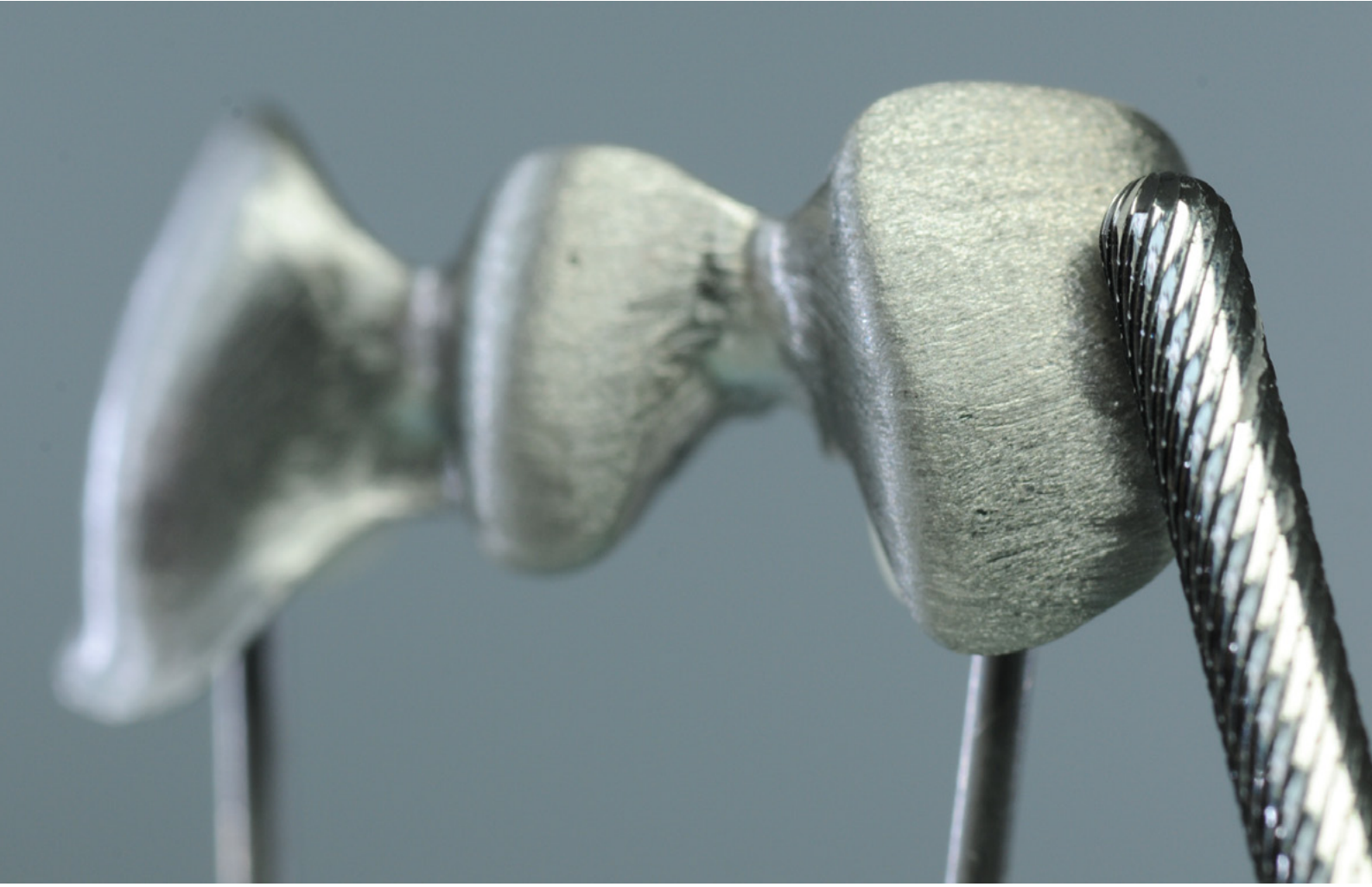


Please see the Gingiva Solution Brochure and the Gingiva Solution Manual for further information on soft tissue design ("pink esthetics").

Shade stability

Restorations keep their shade and brightness even when fired several times due to the special composition of the crystalline phases contained in IPS Style. The colour differences (ΔE) measured are not perceptible by the average observer. Greying does not occur.

Fabricating the metal framework



Picture: Dieter Grübel, MDT, Liechtenstein (ICDE Ivoclar Vivadent)

Fabricating the metal framework

Fabrication procedure

IPS Style is suitable for the veneering of all types of metal frameworks in the indicated CTE range, irrespective of the system used to produce them: precious or base metal alloy, digitally milled or conventionally cast – the choice lies with the user.



The manual “Framework design for metal-ceramic restorations” provides detailed instructions of how to design frameworks correctly – from both an esthetic and functional perspective.

Alloy selection

Modern metal-ceramic materials need to keep pace with the fast changing alloy market. They should be equally suitable for high-gold casting alloys as well as for base metal alloys. The latter are becoming increasingly popular for use in CAD/CAM-based subtractive and additive manufacturing processes. As a result, this segment is growing rapidly. The low-fusing IPS Style metal-ceramic has been designed to respond to these changes.

Ivoclar Vivadent offers a broad spectrum of alloys that are compatible with IPS Style. An alloy table has been especially compiled to provide users with an overview of the company's alloys that are compatible with IPS Style. Please see overleaf or look it up at www.ivoclarvivadent.com/style.



You can also find this information in the Instructions for Use of IPS Style.



Tip:

Frameworks milled from the Colado CAD CoCr4 cobalt chromium alloy can be easily veneered with IPS Style.



Note:

Due to its wide CTE range of $13.8\text{--}15.2 \times 10^{-6}/\text{K}$ ($25\text{--}500^\circ\text{C}$), IPS Style is also suitable for use in conjunction with popular dental alloys from other manufacturers. If alloys from third parties are used, please observe the instructions for use of the relevant manufacturer.

Fabricating the metal framework

Alloy table

Alloy	Shade	CTE 25–500 °C
High-gold alloys		
Brite Gold®	rich yellow	14.8
Brite Gold® XH	rich yellow	14.4
Golden Ceramic®	rich yellow	14.6
Aquarius Hard	rich yellow	14.5
d.SIGN® 98	rich yellow	14.3
BioPorta G	yellow	14.5
Aquarius XH	yellow	14.1
Porta Reflex	yellow	14.3
Porta P6	white	14.0
Porta Geo Ti	yellow	14.1
Sagittarius	white	14.0
d.SIGN® 96	yellow	14.3
Reduced gold alloys		
d.SIGN® 91	white	14.2
Porta SMK 82	white	13.9
W	white	14.2
W-5	white	14.0
Lodestar®	white	14.1
Leo	white	13.9
Evolution® Lite	white	14.2
Euro 45	white	14.1
Palladium-based alloys		
Simidur S2	white	14.2
Spartan® Plus	white	14.3
Spartan®	white	14.2
Capricorn	white	14.1
d.SIGN® 84	white	13.8
Protocol®	white	13.8
Callisto® 75 Pd	white	13.9
Duo Pal 6	white	14.1
Aries	white	14.7
d.SIGN® 67	white	13.9
d.SIGN® 59	white	14.5
Simidur S1S	white	14.8
d.SIGN® 53	white	14.8
W-1	white	15.2
Capricorn 15	white	14.3
Callisto® CPG	white	14.2
Implant alloys		
Callisto® Implant 78	white	13.9
Euro 33 Implant	white	14.3
Callisto® Implant 60	white	14.5
Callisto® Implant 78	white	13.9
Euro 33 Implant	white	14.3
Callisto® Implant 60	white	14.5
Base metal alloys		
Colado® NC	white	14.4
4all®	white	13.9
d.SIGN® 30	white	14.5
Colado® CC	white	14.2
Base metal CAD/CAM alloys		
Colado® CAD CoCr4	white	14.4



Provided the required framework design with metal scallops and the ceramic layer thicknesses of up to max. 1.5 mm can be achieved, these alloys can be used with standard cooling in the Programat® furnaces.

If the requirements cannot be met, long-term cooling may be favourable on base metal alloys as well as on alloys with a high CTE.

The range of available alloys may vary from country to country.

Fabricating the metal framework

Preparing CAD/CAM alloys for veneering

Certain procedures are simplified if frameworks are produced using a digital method. It is nonetheless essential to prepare milled or laser sintered frameworks carefully for the veneering process with IPS Style:

1. After milling, separate the restoration from the disc, using instruments that are suitable for CoCr alloys, such as cross-cut tungsten carbide burs or suitable separating discs.



Important:

Leftover disc material must not be used as casting alloy.

2. Once removed from the disc, thoroughly clean the restoration with hot steam and then degrease with ethyl alcohol.
3. Rework the surface until all sharp line angles and edges are rounded (e.g. use clean tungsten carbide burs that are compatible with CoCr alloys or ceramic-bonded grinders). If required, adjust the shape of the framework. Make sure not to exceed the maximum speed recommended by the manufacturer for the instruments.



Important:

Make sure to grind all of the surface that will subsequently be veneered with IPS Style. Caution: Work in one direction only to prevent overlapping and the formation of bubbles in the IPS Style ceramic during the veneering process.

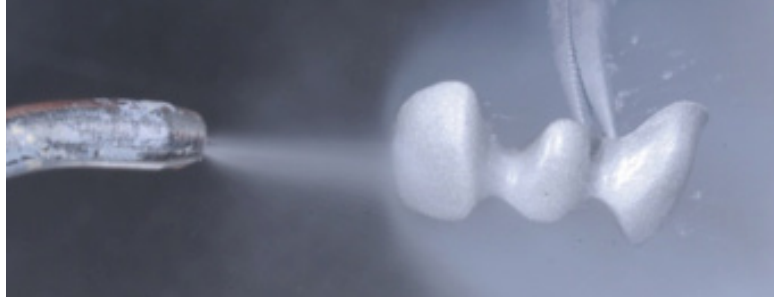
4. Subsequently, blast the veneering surfaces with disposable blasting medium (aluminium oxide, optimum grit size: 110 µm, 2–4 bar) and then rinse off the blasting medium under running water. Next, clean thoroughly with hot steam. This provides an enlarged, clean metal surface and a sound bond to the opaquer.



Important:

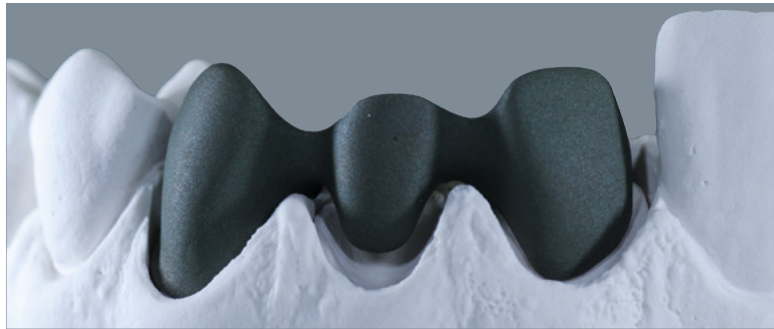
Make sure the workpiece does not become contaminated after this process (e.g. do not touch it with your fingers). Wear a dust mask when finishing the metal framework to protect yourself from inhaling grinding dust. Protect your eyes with goggles.

Fabricating the metal framework



Picture: Dieter Grübel, MDT, Liechtenstein (ICDE Ivoclar Vivadent)

5. Oxidizing: Colado CAD CoCr4 does not necessarily require an oxide firing, but it is recommended because it allows the quality of the framework conditioning to be visually checked.



Picture: Dieter Grübel, MDT, Liechtenstein (ICDE Ivoclar Vivadent)

- Please observe the following oxidation parameters:
Temperature 980°C, with vacuum, holding time 1 min.
Wait until the furnace is completely open before you remove the framework.

Next, remove the oxide layer using disposable blasting medium (aluminium oxide, optimum grit size: 110 µm, 2–4 bar).
If you use a different alloy, observe the relevant instructions of the alloy manufacturer.
- Thoroughly clean the surface of the framework again under running water and with hot steam. After cleaning, do not touch the metal framework with your fingers and keep it generally clean.

6. You may now proceed to veneer the framework in the usual manner.



Tip:

Polishing non-veneered metal portions of the framework:

After the final glaze firing, carefully remove oxide residues from the inner aspect of the crown using disposable blasting medium (aluminium oxide, 110 µm, 2 bar). Make sure that the glazed ceramic is not overexposed to the blasting medium.

Tip: Cover the ceramic with wax before blasting. Finish and polish the metal portions of the framework with rubber finishers/polishers. Avoid local overheating during polishing.

Fabricating the metal framework



Silver alloys

IPS Style is also suitable for use in conjunction with alloys that have an elevated silver content. If these alloys are used, the ceramic surface of the restoration is ground prior to the application of each additional ceramic layer and thoroughly cleaned with the steam jet. Silver ions in the heating muffle are removed by running the cleaning program of the Programat ceramic furnace.

Electroplated crowns

IPS Style can also be used to veneer frameworks fabricated in the electroplating (Galvano) technique.



Note:

The instructions of the manufacturer of the respective electroplating system must be observed.



Opaquers and bonding



Picture: Velimir Žujić, MDT, Croatia

Opaquers and bonding

Applying the opaquer

Applying two opaque coatings provides the foundation for achieving optimal results with IPS Style. The first thin coating (wash) enhances the bond between the metal framework and the ceramic layers subsequently applied onto it. Possible accumulations of gas may escape from the alloy during the firing procedure. The second coating is applied in a covering layer.

IPS Style Ceram Powder Opaquer can be conventionally applied with a brush or ball-shaped ceramic instrument or by means of the spray-on technique. If the spray-on technique is used, the opaquer powder and liquid should be mixed to have a slightly lower viscosity.

IPS Style Ceram Paste Opaquer is supplied ready to use. Use IPS Paste Opaquer Liquid to adjust the consistency of the paste, if necessary.



Tip:

Use as little IPS Paste Opaquer Liquid as possible to dilute the paste opaquer. Strong dilution may compromise the masking capability of the opaquer.

Whichever technique is used, the result will be the same: excellent masking power, silky mat surface and a lifelike shade reproduction.

Dried opaquer powder residue can be re-moistened with distilled water.

Adhesive bonding / Bonder

Application of the IPS Style Ceram Powder Opaquer or IPS Style Ceram Paste Opaquer results in an effective metal-ceramic bond. No advantage is gained by applying a bonder prior to the opaquer. It is therefore not recommended to use a bonder in conjunction with IPS Style.



Picture: Velimir Žujić, MDT, Croatia

Veneering and customizing

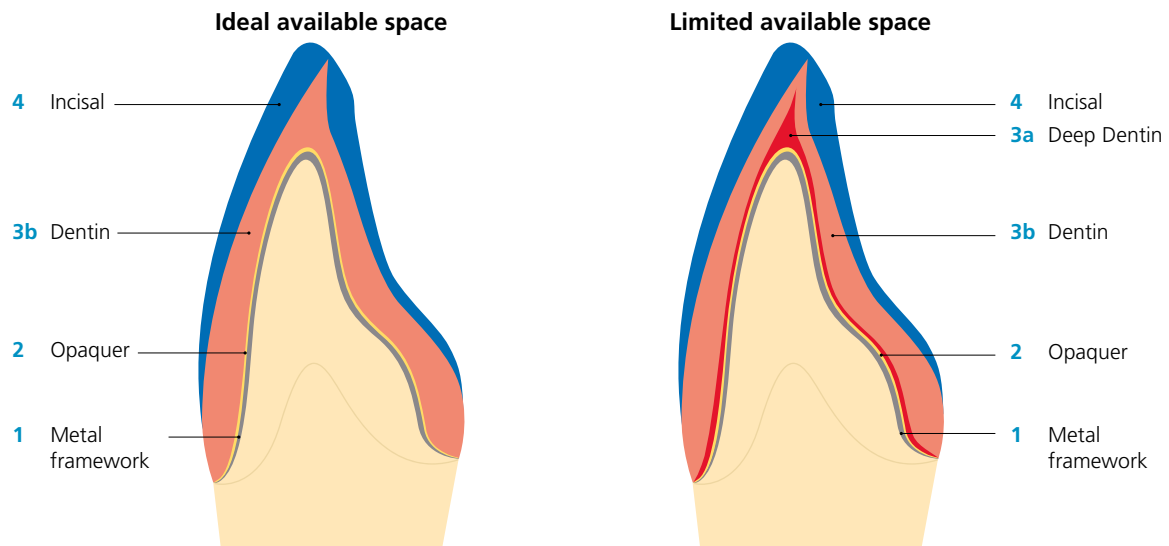


Picture: Milos Miladinov, MDT, Romania

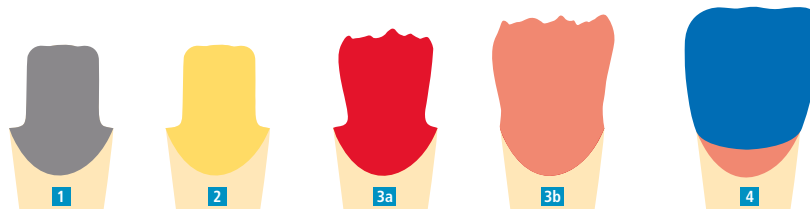
Veneering and customizing

Standard layering technique

Layering example:



Step-by-step:



Initial steps when using base metal CAD/CAM alloys

Thoroughly clean the surface with a clean brush under running water before each application of ceramic/after each ceramic firing. In the process, the water-soluble oxides are removed and the conditions for bubble-free and optimal results are established.

Subsequently, clean the restoration once more thoroughly with the steam jet.

Veneering and customizing

Build-up liquids

Various build-up liquids are available for mixing the IPS Style layering materials. Which ever you choose depends on your preferred working technique.



- IPS Build-Up Liquid allround:
Long working time, moist working consistency and high stability



- IPS Build-Up Liquid soft:
Drier working consistency and medium stability

In comparison:



- Distilled water:
Adding distilled water reduces the working time and stability. The firing results are not affected by the use of distilled water.



Note:

Make sure the ceramic materials are sufficiently moist when you apply them to avoid the formation of bubbles. Use distilled water to rewet layering materials. By using distilled water, organic compounds do not accumulate. Possible grey discolourations in the restoration are prevented.



Picture: Oliver Morhofer, MDT, Germany

Veneering and customizing

Soft tissue design

Gingival structures can be reconstructed using specially designed ceramic materials. The extensive range of IPS Style Ceram Gingiva and Intensive Gingiva shades enables the lifelike reconstruction of “pink esthetics”.



Picture: Brain Walters, DT, Dr David Dunn, Australia

The gingiva materials are part of the Gingiva Solution range of shades and products.

“Gingiva Solution” comprises suitable materials for the true-to-nature design of artificial gingiva in all-ceramic, metal-ceramic and composite restorations. Standardized shades and shade designations facilitate the application of the individual materials.



Please see the Gingiva Solution Brochure and the Gingiva Solution Manual for further information on soft tissue design (“pink esthetics”).

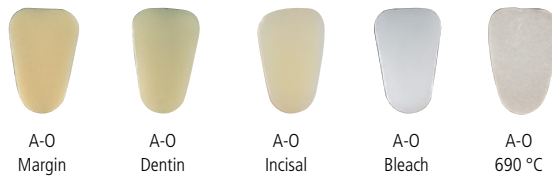
Veneering and customizing

Add-on materials

IPS Style includes a variety of add-on materials designed for adjusting contact points, pontic rests, shoulder areas, etc.

Shade range:

- IPS Style Ceram Add-On Margin (together with the Glaze firing, firing temperature 750 °C)
- IPS Style Ceram Add-On Dentin (together with the Glaze firing, firing temperature 750 °C)
- IPS Style Ceram Add-On Incisal (together with the Glaze firing, firing temperature 750 °C)
- IPS Style Ceram Add-On Bleach (together with the Glaze firing, firing temperature 750 °C)
- IPS Style Ceram Add-On 690 °C (after the Glaze firing, firing temperature 690 °C)



A-O
Margin

A-O
Dentin

A-O
Incisal

A-O
Bleach

A-O
690 °C



Note:

The add-on materials should not be mixed with the layering ceramics as this may impair the firing stability.



Veneering and customizing

Stains

IPS Ivocolor is suitable for the individualized staining and characterization of IPS Style restorations. The universal assortment of stains and glazes is coordinated with all* press, layering and CAD ceramic materials from Ivoclar Vivadent.

Effective wetting properties of the ceramic surfaces are essential to allow the IPS Ivocolor Shades, Essence and Glaze materials to be applied in a homogeneous coating. The wetting properties can be improved by rubbing the surface with moist ceramic powder or pumice.

* with the exception of uncrystallized IPS e.max CAD and CAD-on restorations



Glazing

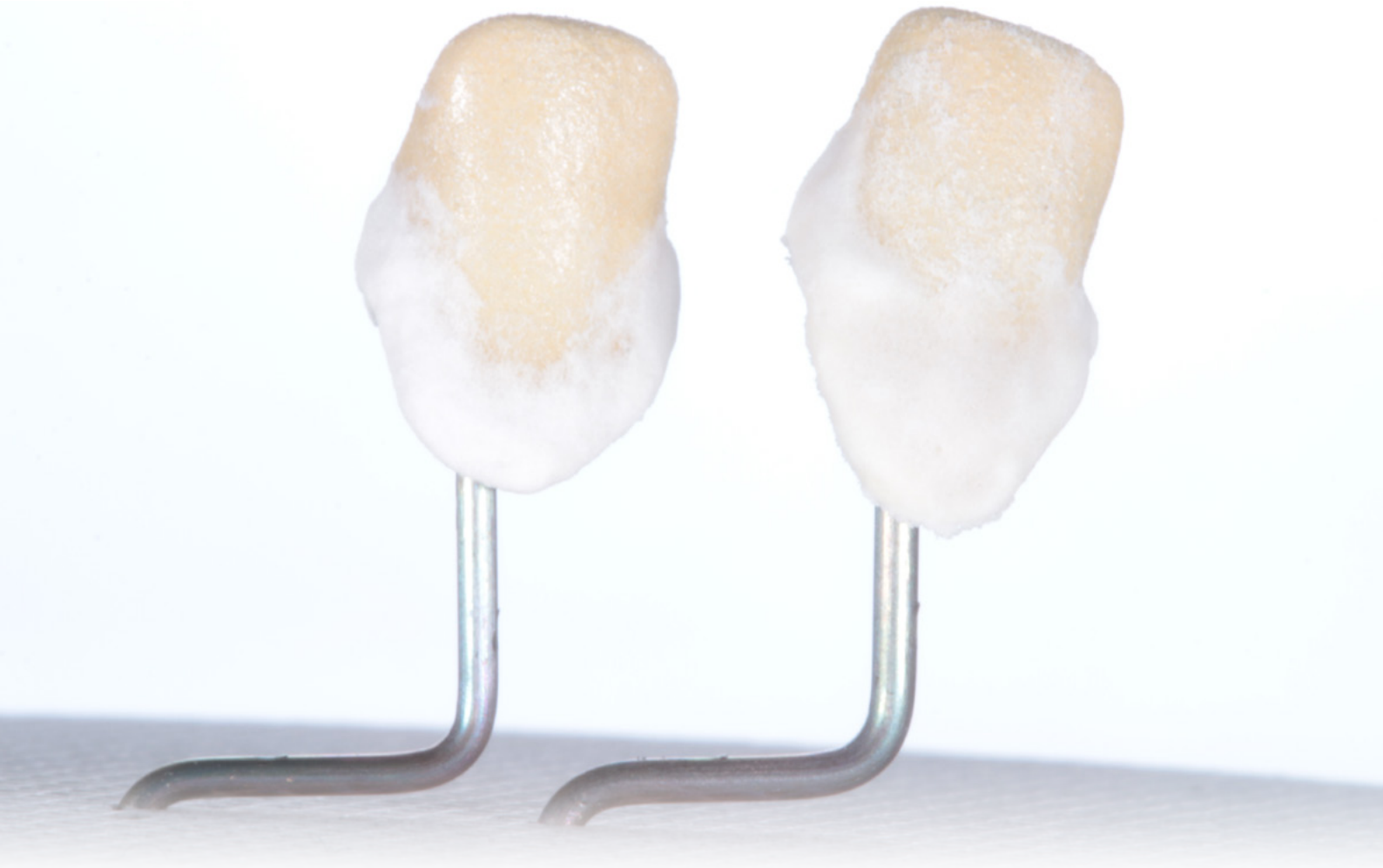
After the restoration has been finalized and characterized, it should always be subjected to a glaze firing. The gloss is determined by the amount of glazing material being applied: To achieve a high surface gloss apply a sufficient amount of glaze material in a generous layer.

To achieve a silky mat shiny finish with pronounced surface texture, apply a thinner coating.



Picture: Michele Temperani, MDT, Italy

Firing



Picture: Oliver Morhofer, MDT, Germany

Ceramic shrinkage / Edge strength

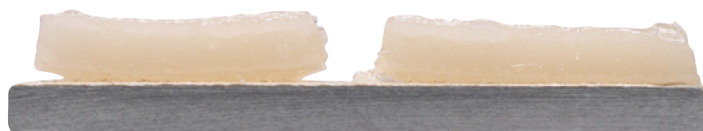
IPS Style is a mixed glass-ceramic with a defined grain size distribution. The ceramic particles are tightly packed together even when they are only layered and not yet fired. The shrinkage behaviour is therefore optimized.

In addition, the opaquer and layering materials feature a similar architecture. This means that the ceramic can effectively wet the surface of the opaquer once the firing temperature has been reached.

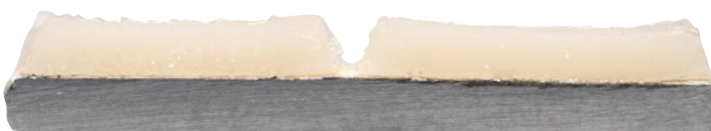
The result achieved after the first firing cycle is already very close to the final shape due to an optimized sintering process. The materials stay there where they have been applied. Uncontrolled delamination of ceramic material at interdental or occlusal areas is avoided. As a result, fewer firing processes are required and this helps save time.

IPS Style features an optimized shrinkage behaviour, which is also reflected in its high edge strength.

If the ceramic part is large, overall shrinkage is distributed to two firing cycles by conducting an intermediate firing cycle with Deep Dentin or Dentin material. When working with IPS Style Ceram Impulse materials, use an intermediate firing cycle to ensure the stability during subsequent layering.



Conventional metal-ceramic



IPS Style*

Shrinkage behaviour of the ceramic and wetting of the opaquer – a comparison:
IPS Style® produced a visibly better firing result than the conventional metal-ceramic after one firing cycle under standardized test conditions*.

* Source: R&D Ivoclar Vivadent, Schaan, 2015

Firing

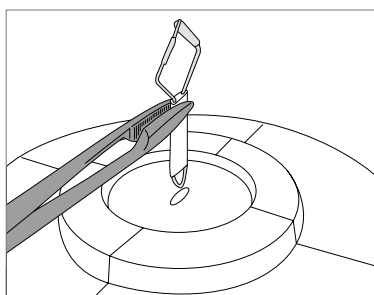
Furnace calibration

The heating element and the heating muffle of the furnace may be subject to change, depending on the length of service life and nature of use.



Note:

Programat furnaces should be subjected to an automatic temperature calibration process at least every six months.



The automatic temperature test set ATK2 is designed for checking and calibrating the exact firing temperature.

Firing parameters

The firing parameters of the Programat furnaces are optimally coordinated with IPS Style by providing specially designed programs. Ceramic furnaces of other manufacturers may feature different modes of operation compared to the Programat furnaces (e.g. predrying time, heating rate). The firing parameters may have to be adjusted accordingly for these furnaces.

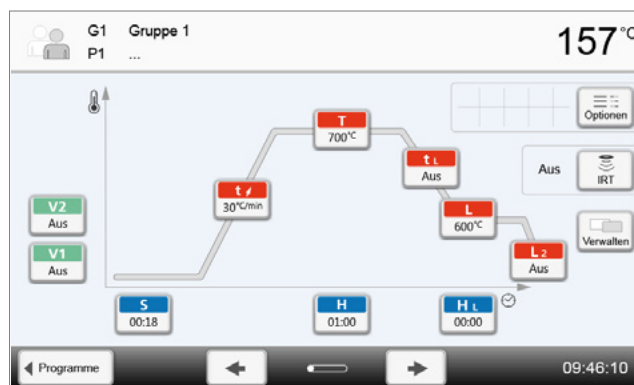


Long-term cooling

If IPS Style is applied in layers of a thickness of more than 1.5 mm, long-term cooling may be favourable in conjunction with all main, corrective and glaze firing cycles.

This applies to base metal alloys and alloys with a high CTE.

If long-term cooling is used, the closed furnace head cools down to a temperature of 650°C. Applying long-term cooling is particularly important if it is recommended in the instructions for use of the relevant alloy manufacturer.



Ivoclar Vivadent – worldwide

Ivoclar Vivadent AG
Bendererstrasse 2
9494 Schaan
Liechtenstein
Tel. +423 235 35 35
Fax +423 235 33 60
www.ivoclarvivadent.com

Ivoclar Vivadent Pty. Ltd.
1 – 5 Overseas Drive
P.O. Box 367
Noble Park, Vic. 3174
Australia
Tel. +61 3 9795 9599
Fax +61 3 9795 9645
www.ivoclarvivadent.com.au

Ivoclar Vivadent GmbH
Tech Gate Vienna
Donau-City-Strasse 1
1220 Wien
Austria
Tel. +43 1 263 191 10
Fax: +43 1 263 191 111
www.ivoclarvivadent.at

Ivoclar Vivadent Ltda.
Alameda Caiapós, 723
Centro Empresarial Tamboré
CEP 06460-110 Barueri – SP
Brazil
Tel. +55 11 2424 7400
www.ivoclarvivadent.com.br

Ivoclar Vivadent Inc.
1-6600 Dixie Road
Mississauga, Ontario
L5T 2Y2
Canada
Tel. +1 905 670 8499
Fax +1 905 670 3102
www.ivoclarvivadent.us

Ivoclar Vivadent Shanghai Trading Co., Ltd.
2/F Building 1, 881 Wuding Road,
Jing An District
200040 Shanghai
China
Tel. +86 21 6032 1657
Fax +86 21 6176 0968
www.ivoclarvivadent.com

Ivoclar Vivadent Marketing Ltd.
Calle 134 No. 7-B-83, Of. 520
Bogotá
Colombia
Tel. +57 1 627 3399
Fax +57 1 633 1663
www.ivoclarvivadent.co

Ivoclar Vivadent SAS
B.P. 118
74410 Saint-Jorioz
France
Tel. +33 4 50 88 64 00
Fax +33 4 50 68 91 52
www.ivoclarvivadent.fr

Ivoclar Vivadent GmbH
Dr. Adolf-Schneider-Str. 2
73479 Ellwangen, Jagst
Germany
Tel. +49 7961 889 0
Fax +49 7961 6326
www.ivoclarvivadent.de

Ivoclar Vivadent Marketing (India) Pvt. Ltd.
503/504 Raheja Plaza
15 B Shah Industrial Estate
Veera Desai Road, Andheri (West)
Mumbai, 400 053
India
Tel. +91 22 2673 0302
Fax +91 22 2673 0301
www.ivoclarvivadent.in

Ivoclar Vivadent Marketing Ltd.
The Icon
Horizon Broadway BSD
Block M5 No. 1
Kecamatan Cisauk Kelurahan Sampora
15345 Tangerang Selatan – Banten
Indonesia
Tel. +62 21 3003 2932
Fax +62 21 3003 2934
www.ivoclarvivadent.com

Ivoclar Vivadent s.r.l.
Via Isonzo 67/69
40033 Casalecchio di Reno (BO)
Italy
Tel. +39 051 6113555
Fax +39 051 6113565
www.ivoclarvivadent.it

Ivoclar Vivadent K.K.
1-28-24-4F Hongo
Bunkyo-ku
Tokyo 113-0033
Japan
Tel. +81 3 6903 3535
Fax +81 3 5844 3657
www.ivoclarvivadent.jp

Ivoclar Vivadent Ltd.
4F TAMIYA Bldg.
215 Baumoe-ro
Seocho-gu
Seoul, 06740
Republic of Korea
Tel. +82 2 536 0714
Fax +82 2 6499 0744
www.ivoclarvivadent.co.kr

Ivoclar Vivadent S.A. de C.V.
Calzada de Tlalpan 564,
Col Moderna, Del Benito Juárez
03810 México, D.F.
México
Tel. +52 (55) 50 62 10 00
Fax +52 (55) 50 62 10 29
www.ivoclarvivadent.com.mx

Ivoclar Vivadent BV
De Fruittuinen 32
2132 NZ Hoofddorp
Netherlands
Tel. +31 23 529 3791
Fax +31 23 555 4504
www.ivoclarvivadent.com

Ivoclar Vivadent Ltd.
12 Omega St, Rosedale
PO Box 303011 North Harbour
Auckland 0751
New Zealand
Tel. +64 9 914 9999
Fax +64 9 914 9990
www.ivoclarvivadent.co.nz

Ivoclar Vivadent Polska Sp. z o.o.
Al. Jana Pawła II 78
00-175 Warszawa
Poland
Tel. +48 22 635 5496
Fax +48 22 635 5469
www.ivoclarvivadent.pl

Ivoclar Vivadent LLC
Prospekt Andropova 18 korp. 6/
office 10-06
115432 Moscow
Russia
Tel. +7 499 418 0300
Fax +7 499 418 0310
www.ivoclarvivadent.ru

Ivoclar Vivadent Marketing Ltd.
Qlaya Main St.
Siricon Building No.14, 2nd Floor
Office No. 204
P.O. Box 300146
Riyadh 11372
Saudi Arabia
Tel. +966 11 293 8345
Fax +966 11 293 8344
www.ivoclarvivadent.com

Ivoclar Vivadent S.L.U.
Carretera de Fuencarral nº24
Portal 1 – Planta Baja
28108-Alcobendas (Madrid)
Spain
Tel. +34 91 375 78 20
Fax +34 91 375 78 38
www.ivoclarvivadent.es

Ivoclar Vivadent AB
Dalvägen 14
169 56 Solna
Sweden
Tel. +46 8 514 939 30
Fax +46 8 514 939 40
www.ivoclarvivadent.se

Ivoclar Vivadent Liaison Office
Tesvikiyeh Mahallesi
Sakayik Sokak
Nisantas' Plaza No:38/2
Kat:5 Daire:24
34021 Sisli – Istanbul
Turkey
Tel. +90 212 343 0802
Fax +90 212 343 0842
www.ivoclarvivadent.com

Ivoclar Vivadent Limited
Compass Building
Feldspar Close
Warrens Business Park
Enderby
Leicester LE19 4SD
United Kingdom
Tel. +44 116 284 7880
Fax +44 116 284 7881
www.ivoclarvivadent.co.uk

Ivoclar Vivadent, Inc.
175 Pineview Drive
Amherst, N.Y. 14228
USA
Tel. +1 800 533 6825
Fax +1 716 691 2285
www.ivoclarvivadent.us