

ceramco[®] ic
Integrated Ceramics



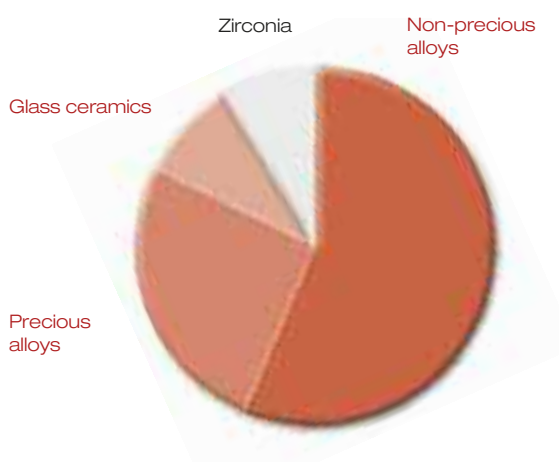
Fascinatingly
flexibel.



DENTSPLY

What types of ceramic restorations does your laboratory offer?

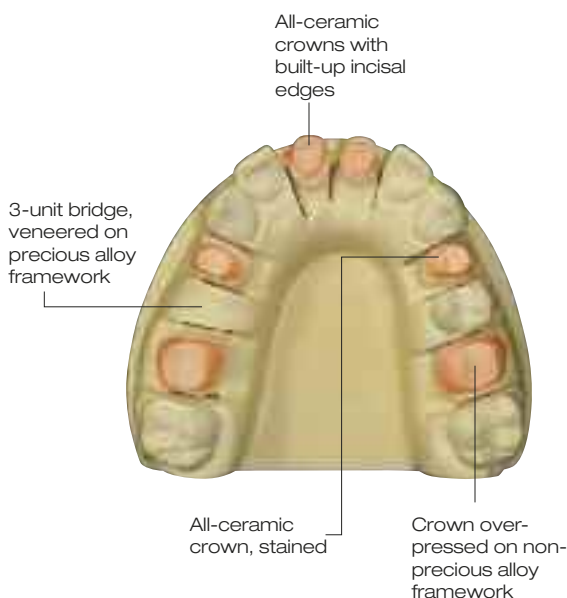
Framework materials in the laboratory



Framework materials

Producing ceramic restorations for various substrates is a standard procedure in the dental laboratory today. A major share of these – very safe – restorations involves metal-ceramic restorations, also known as porcelain-fused-to-metal restorations, where the metal can be a precious or non-precious dental alloy.

In addition, all-ceramic restorations are produced from glass ceramics, or metal frameworks are overpressed to full anatomic crowns and bridges.



Indications

Ceramic restorations are suitable for a broad range of indications. In addition to layered veneers as often used for metal ceramics, highly aesthetic restorations are now also often pressed from glass-ceramic materials. In recent years, crowns and bridges have also been pressed onto metal substructures (overpressing technique) to full anatomic crowns and bridges.

What are your criteria for selecting a ceramic system?



Flexibility

You want to offer both all-ceramic and metal-ceramic restorations?

You want your ceramic products to cover as many indications as possible?

Aesthetics

You are looking for a ceramic system with reliable shade reproduction and vivid opalescence?

You believe high chroma is important to achieve natural-looking results even within ceramic layers?

Reliability

You are looking for consistent and reproducible shades for combined all-ceramic/metal-ceramic restorations?

You expect your all-ceramic restorations to be safe, with excellent stability of the material?

Economy

You would like to save time with short firing cycles?

You prefer ceramic systems with fewer individual components that let you reduce your inventory?

Integrated flexibility

Ceramco iC, the integrated ceramic system, easily meets all your requirements.

Ceramco iC lets you realize high-quality restorations using build-up, pressing and press-to-metal techniques with one and the same materials.

Ceramco iC thus allows you to maximize your laboratory's production capacity and to increase its efficiency and flexibility.

Benefits

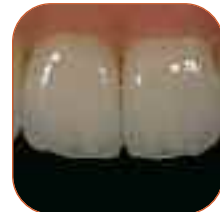
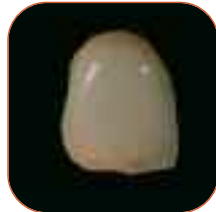
- Metal ceramics: Crowns and bridges of any length on precious and non-precious alloys
- All-ceramics: Veneers, inlays, onlays, single crowns
- Press-to-metal: Crowns and bridges of any length





iC veneering ceramics

Press-to-metal
veneering



Porcelain
fused-to-
metal

All-ceramic
veneering
for all-ceramic
frameworks



Laminate
veneers

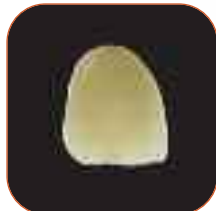
iC pressable ceramics

Press-to-metal



Inlay/Onlay

Pressed
veneers



All-ceramic

Integrated aesthetics

Whatever your expectations in aesthetics may be – with Ceramco iC you will realize it.

Thanks to the high chroma of the paste opaques and dentines, life-like colours can be created even within very thin layers.

In addition, Ceramco iC is characterized by an overwhelmingly natural translucency.

Benefits

- Natural aesthetics through higher translucency
- High chroma even within very thin layers
- Life-like opalescence
- Consistent fluorescence across all shades



Porcelain fused-to-metal



Uniform
fluorescence



Natural
opalescence



The fluorescence level of Ceramco iC is the same for all shades. And thanks to the vivid opalescence of Ceramco iC, it has become very simple to replicate the optical properties of the natural tooth.

Integrated reliability

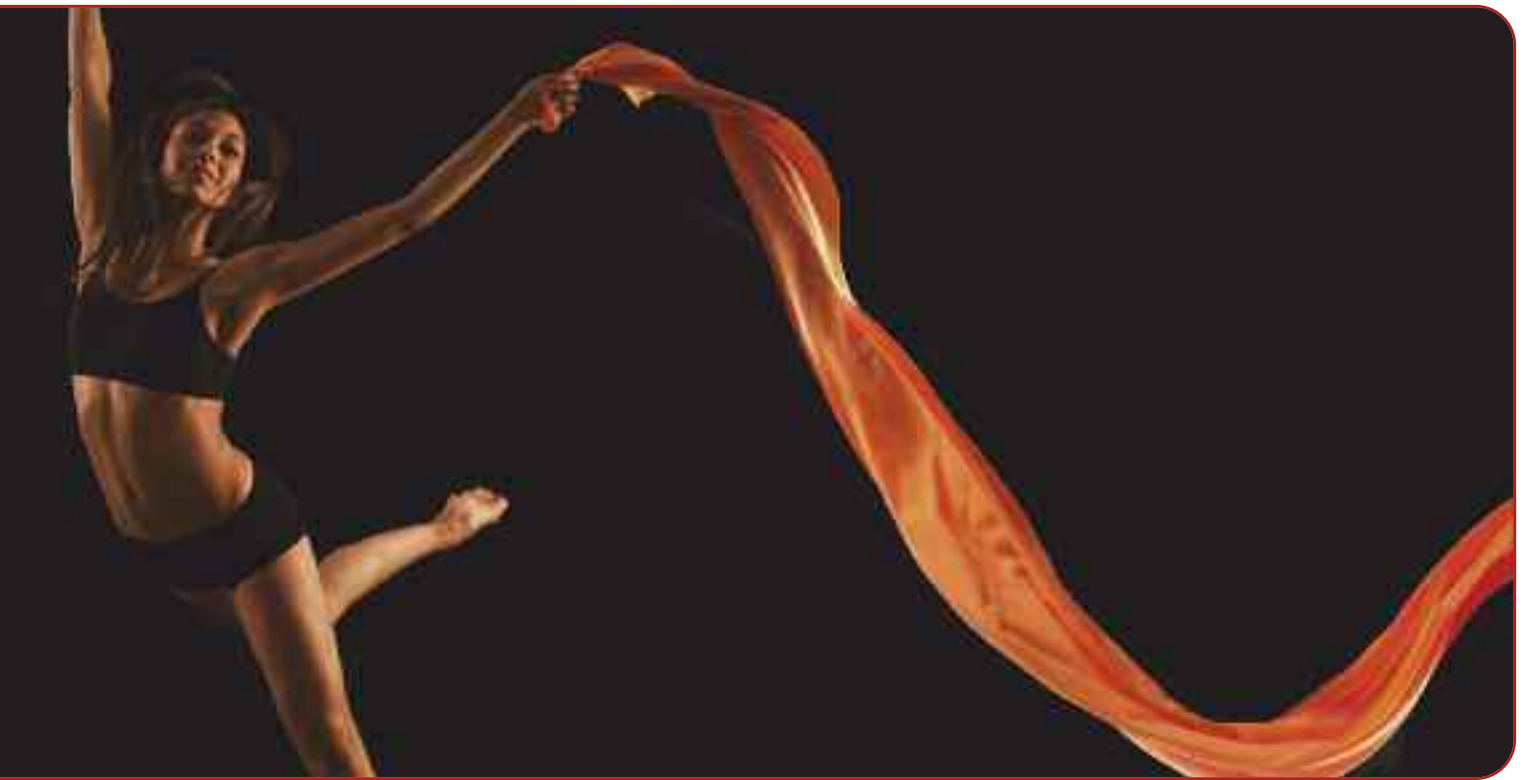
If you believe that combination cases and thin veneers are the ultimate challenge in shade matching, Ceramco iC will show you what perfection is. With Ceramco iC you will always obtain a complete and reliable shade match with a single shade system.

All-ceramics and press-to-metal ceramics

Ceramco iC ingots come in numerous shapes and sizes to accommodate every conceivable need. And since the same ingots are used for all-ceramics and for press-to-metal, you can press multiple restorations of different types concurrently and increase your efficiency. Thanks to the tremendous strengths of Ceramco iC pressable ceramics, veneers can be as thin as 0.3 mm.

Benefits

- Consistency of shades for combination cases and thin veneers
- High strength for excellent safety



Pressable ceramics



iC shade efficiency

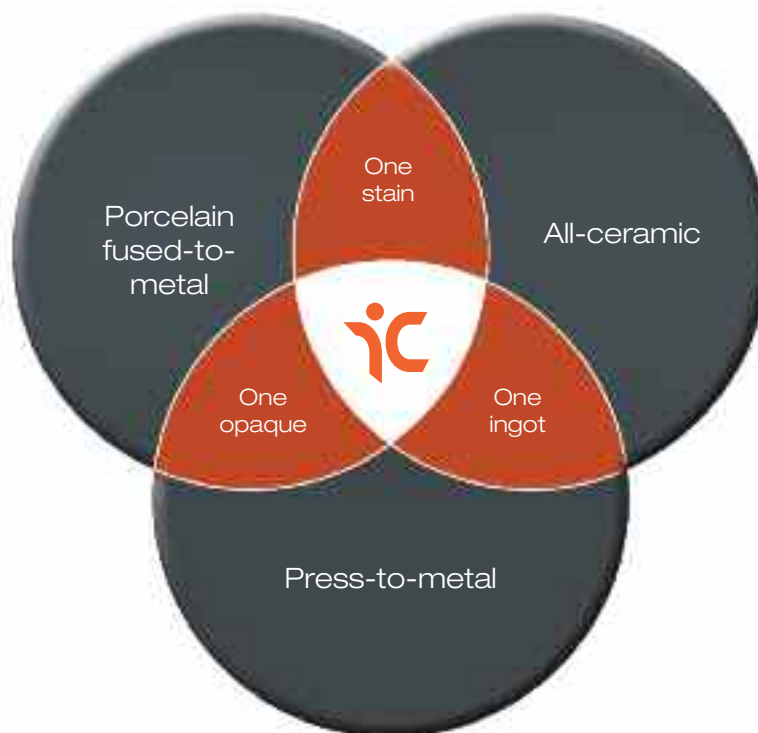
The various Ceramco iC dentines and enamels provide high processing efficiency. For restorations overpressed to full anatomic contour, you have a choice between chromatic dentine or enamel stains. Or use our overglaze paste for one-step staining and glazing.



Integrated economy

Thanks to a special formula, Ceramco iC was able to replace the traditional two-layer paste opaque with a one-layer paste opaque, eliminating an entire firing step. The remaining firing steps for Ceramco iC are performed quickly, saving enormous amounts of time. As the Ceramco iC integrated ceramic material can be used for any type of ceramic restorations (all-ceramics and press-to-metal), you no longer need to tie down your valuable capital to keep lots of different materials in stock.





Benefits

- One system for PFM, All-ceramics and Press-to-metal
- One opaque for PFM and Press-to-metal
- One pressing ingot for All-ceramic and Press-to-metal
- One stain/glaze system for PFM and All-ceramic

Technical specifications

	Veneering ceramics	Pressing ceramics
Indications	Veneers on refractory dies. Crowns and bridges of any length. Press-to-metal crowns and bridges with the cut-back technique.	Veneers, inlays, onlays, all-ceramic crowns (anterior and posterior up to the second premolar). Press-to-metal crowns and bridges of any length.
CTE, ceramics	12.0 $\mu\text{m}/\text{m}^*\text{K}$ (20 – 500°C)	13.0 $\mu\text{m}/\text{m}^*\text{K}$ (20 – 500°C)
CTE, veneered framework	13.8 - 15.1 $\mu\text{m}/\text{m}^*\text{K}$ (20 – 500°C)	Precious alloys: 14.1 - 14.5 $\mu\text{m}/\text{m}^*\text{K}$ (20 – 500°C) Non-precious alloys: 13.8 – 14.1 $\mu\text{m}/\text{m}^*\text{K}$ (20 – 500°C)
Firing/pressing temperature	840°C (Dentine 1)	890°C
Heating rate	100°C/min	60°C/min
Flexural strength	90 MPa	130 MPa
Leucite grain size	1-5 μm	1-5 μm

The pressing ingots (pellets) of Ceramco iC are tailor-made for all-ceramics and characterized by their extremely high strength. Ceramco iC ingots come in numerous shapes and sizes to accommodate every conceivable need.

Ingots

Ingot type	Colour	Technology	Indications	Size
18 x dentine series	16 A-D 2 Bleach	Press-to-Metal or all-ceramics. High opacity.	Excellent for demanding anterior aesthetics. Additional vitality for cutback and enamel layering.	2 g · Ø 10 mm
6 x value series	VS0, VS1, VS2, VS3, VS4, VS5	Press-to-Metal or All-ceramics. Higher translucency.	Excellent choice for high posterior aesthetics. Press to full anatomic contour and subsequently stained.	2 g · Ø 10 mm
6 x neutral series	CC-OC1, CC-O1, CC-O2, CC-O3, CC-T1, CC-T2	All-ceramics. Monochrome.	Various opaque and translucent ingots for all-ceramic veneers, inlays and onlays for subsequent staining.	2 g · Ø 10 mm

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