



The **Profi** ceramic system is manufactured by one of the world leaders in dental ceramics - **Klema Dentalprodukte** (Austria) and meets all the essential requirements of dental technicians: the highest quality at an affordable price.

### Advantages:

- exact Vita A1-D4 shade matching
- easy to work
- low shrinkage
- an affordable price



Leucite-Reinforced porcelain (fused to metal) for frameworks made of precious and non-precious alloys



Synthetic ceramic for layering frameworks made of Profi Press and for frameworks made of precious and non-precious alloys



Ceramic for zircon frameworks



Ingots for pressing single crowns, inlays, veneers, onlays, overlays



Ingots for press-on-metal



Ingots for press-on-zircon

## Profi Line, leucite-reinforced feldspar ceramic

Profi Line ceramic is used with dental alloys in the CTE range of 13.8-14.9.

Depending on the alloy, the steps performed by the dental technician must be different

Alloy CTE	from 13,8	to 14,1	from 14,5	from 14,9
Mechanist's step	Quick cooling	Normal cooling	Slow cooling is required (6 minutes)	



### Profi Line Bond

**Use of Profi Line Bond is not required!**

Profi Line Bond enhances the bond between ceramic and metal, absorbs metal oxides, which improves the properties of the ceramic. Sandblast metal framework. Apply a thin layer of bond with a brush. Color of the bond can change after firing depending on the alloy.

T	B	S	t↑	H	V1	V2
985°C	490°C	7 min	75°C	1 min	490°C	984°C

### Profi Line Opaquer

Apply a thin coat of Opaquer in usual manner. It is important that the brush should be wetted only slightly. Opaquer can be slightly diluted with glazing liquid.

#### First baking of Opaquer

T	B	S	t↑	H	V1	V2
945°C	490°C	7 min	75°C	1 min	490°C	944°C

Apply the second layer of Opaquer so that the metal framework is fully covered with Opaquer.

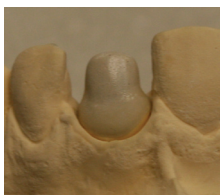


Attention! Never dilute Opaquer with water!

#### Second baking of Opaquer

T	B	S	t↑	H	V1	V2
935°C	490°C	7 min	75°C	1 min	490°C	934°C

### Profi Line Margin



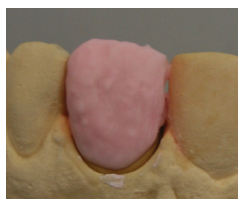
First, isolate the model using Profi Line Ceramic-Margin Isolir. The Profi Line Margin shoulder ceramic is applied in the neck area in the form of a drop (that is, the external surface of the ceramics should be made convex), and then dried. After that, the frame with the applied and dried shoulder ceramic is carefully removed from the die

#### Firing of shoulder ceramic

T	B	S	t↑	H	V1	V2
925°C	520°C	4 min	60°C	min	520°C	924°C

### Profi Line Opaque-Dentin

Opaque-Dentin masks neck area of the crown and prevents excessive penetration of light into the restoration. In addition, Opaque-Dentin is important for making pontics and adding the stability of color in the cervical third.



### Profi Line Dentin

Make layering with dentin into the final shape.

After the anatomic shape has been fully layered, remove the material where further individualized layering will be required, while leaving mamelons.



### First firing of dentin

T	B	S	t↑	H	V1	V2
890°C	510°C	7 min	50°C	1 min	510°C	889°C

### Second firing of dentin

T	B	S	t↑	H	V1	V2
880°C	510°C	7 min	50°C	1 min	510°C	879°C



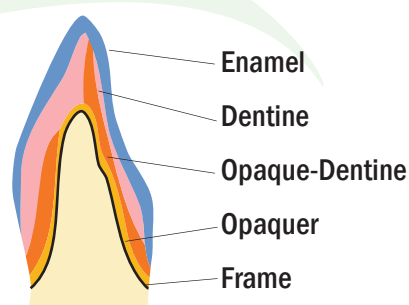
Attention – Avoid excessive drying of the ceramic!

Do not wet the applied ceramics on the framework with modeling liquid.

After firing, perform thin clean separation as deep as to the opaquer in the interdental gaps.

### Creation of the final anatomic shape

Before the second firing of dentin and the incisal edge, the restoration must be carefully cleaned, for example, with a steam jet. After the firing, perform thin clean separation as deep as to the opaquer in the interdental space.



Finish the restoration into anatomic shape using Opal-Schneide, Transpa and Impulse powders. Note the diagram of ceramics layering. Opal-Schneide powder is applied on the whole labial surface with a thickness of 1 mm on the incisal edge, the closer to the neck, the smaller the thickness.

### Profi Line Universal Shade/Stains

Profi Line Universal Shade/Stains are fluorescent and do not block the light. The exclusion is Maroon – a blind masking dye. Take the desired amount of Profi Line Stains and dilute it with Profi Line Glazing-Staining Liquid depending on consistency you wish to have, then mix them. Then create individual features on the surface such as staining any fissures, enamel spots and so on.

### Profi Line Glazing



Take Profi Line glazing paste and mix it well. After that, apply the glazing with a brush in usual manner. Avoid applying thick layers or, most importantly, too liquid application of the glazing. If necessary, use Profi Line Glazing-Staining Liquid.

T	B	S	t↑	H	V1	V2
850°C	480°C	2 min	45°C	1 min	—	—

### Profi Line Correctur

Before the second firing of dentin and the incisal edge, the restoration must be carefully cleaned, for example, with a steam jet. After the firing, perform thin clean separation as deep as to the opaquer in the interdental space.

T	B	S	t↑	H	V1	V2
770°C	415°C	7 min	40°C	1 min	415°C	769°C

## Ceramics mass correspondence table

	A1	A2	A3	A3.5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4
Opaquers	A1	A2	A3	A3.5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4
Opaque-Dentin	A1	A2	A3	A3.5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4
Dentin	A1	A2	A3	A3.5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4
Opal-schneide	OS1	OS1	OS2	OS2	OS3	OS4	OS2	OS2	OS2	OS3	OS2	OS2	OS3	OS3	OS2	OS2
Margin	M2	M2+M6 90/10	M2+M6 80/20	M2+M6 50/50	M6	M1+M3 50/50	M1+M3 20/80	M3	M3+M4 50/50	M1+M5 50/50	M1+M5 30/70	M1+M5 20/80	M5	M2+M5 70/30	M2+M5 50/50	M5

Dentin-Modifier	1	2	3	4	5	
Transpa	Neutral		Clear			Blue
Impulse	Opal Effect white	Opal Effect blue		Occlusal Dentin Orange		Mamelon light
Bleach	Opaquers		Dentin		Schneide	
Gingiva				Gingiva		Gingiva Opaquers
Correctur				Correctur		

## Profi Line ceramics mass pulse

Bleach dentin	Bleach schneide	Transpa Neutral	Transpa Clear	Transpa Orange Grey	Transpa Brown Grey	Transpa blue	Opal Effect White	Opal Effect Blue	Occ. Dentin Orange	Mamelon Light	Gingiva
Modifier 1	Modifier 2	Modifier 3	Modifier 4	Modifier 5							

## Profi Line Universal Shade/ Stains

Universal Stains deep	Universal Stains white	Universal Stains crackliner	Universal Stains yellow	Universal Stains Dark yellow	Universal Stains khaki	Universal Stains olive	Universal Stains orange	Universal Stains mahogany
Universal Stains grey	Universal Stains red	Universal Stains blue	Universal Stains maroon	Universal Shade Group A	Universal Shade Group B	Universal Shade Group C	Universal Shade Group D	

## Profi Line ceramics baking table

	T	B	S	t↑	H	V1	V2
First firing of opaquer	945°C	490°C	7 min	75°C	1 min	490°C	944°C
Second firing of opaquer	935°C	490°C	7 min	75°C	1 min	490°C	934°C
Margin firing	925°C	520°C	4 min	60°C	1 min	520°C	924°C
First firing of dentin	890°C	510°C	7 min	50°C	1 min	510°C	889°C
Second firing of dentin	880°C	510°C	7 min	50°C	1 min	510°C	879°C
Firing of stains and glazing	850°C	480°C	2 min	45°C	1 min	—	—
Firing of the correction ceramic	770°C	415°C	7 min	40°C	1 min	415°C	769°C

Temperatures can be adjusted if needed  
(for example temperature of firing of dentin can be raised by 10 °C if surface is too matte).

T - final temperature

H - holding time

B - starting temperature

V1 - vacuum on

S - drying time

V2 - vacuum off

t↑ - heating rate