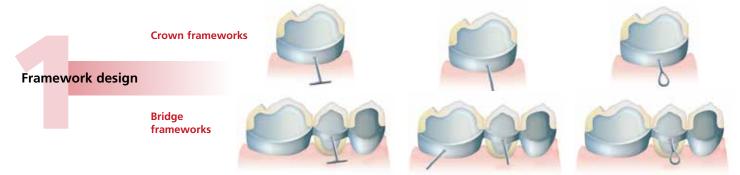
# Line® PoM – PROCESSING Line® PoM – PROCESSING

#### **Press-on-Metal Ceramic**



The IPS InLine PoM (Press-on-Metal) ingots are ideally coordinated with a wide selection of Ivoclar Vivadent alloys in the CTE range between 13.8 and 14.5 x  $10^{\circ}$  K<sup>-1</sup>  $25-500^{\circ}$ C, <  $10^{\circ}$  silver.



Attach retentions in the area of the pontic. The retention should be carefully removed without overheating not earlier than after glaze firing.

**Tip:** Use e.g. a wax wire with a diameter of 1.0-1.5 mm, to shape retentions.

### 1st and 2nd Opaquer firing







If the wash opaquer layer is only thinly applied, the alloy has another chance to degas during firing. The second opaquer layer is then applied in such a way that it covers the entire framework. Its shade can be individualized using the Intensive Opaquers.

## Exact planning per wax-up







Fabricate a wax-up of the opaquerized metal framework in the desired shape and function. Sprueing is carried out on the IPS e.max investment base in the direction of flow and always in the thickest area.

### Investing / Pressing / Divesting







Invest with IPS PressVEST (e.g. over night) or IPS PressVEST Speed. Place the **cool** IPS InLine PoM ingot in the **hot** investment ring with the ingot shade facing upwards. Subsequently, place the powder-coated (with IPS Alox Plunger Separator) **cold** IPS Alox plunger into the **hot** investment ring and press. Rough divesting is carried out with the jet medium at 4 bar pressure. Reduce the pressure to approximately 1–1.5 bar for fine divestment.

### Finishing









Now, the restoration is fitted on the master model for the first time and the proximal contact surfaces are adjusted by grinding. Carefully separate the sprues above the contact area using a diamond disk. Then, finish the anatomic shape and the surface structure using the recommended grinding instruments. Subsequently, the new stains are used to apply characterizations and/or the shade is intensified using the corresponding dentin shades. The **accurately fitting** IPS InLine PoM bridge is now completed.

#### **Firing parameters**

or

	PS InLine PoM Press-on-Metal Ceramik	<b>T</b> °C /°F	B °C /°F	S min	t ≁ °C /°F / min	H min	<b>V</b> <sub>1</sub> °C /°F	<b>V₂</b> °C /°F
	st + 2 <sup>nd</sup> Opaquer firing lowder Opaquer	960 / 1760	403 / 757	4	100 / 180	2	450 / 842	959 / 1758
	st + 2 <sup>nd</sup> Opaquer firing laste Opaquer	930 / 1706	403 / 757	6	100 / 180	2	450 / 842	929 / 1704
Т	ouch-Up firing	840 / 1544	403 / 757	4	60 / 108	1	450 / 842	839 / 1524
S	hade / Stains firing	800 / 1472	403 / 757	6	60 / 108	1	450 / 842	799 / 1470
	Glaze firing	800 / 1472	403 / 757	6	60 / 108	2	450 / 842	799 / 1470
	Add-on firing Add-On 690°C/1274°F	690 / 1274	403 / 757	4	60 / 108	1	450 / 842	689 / 1272

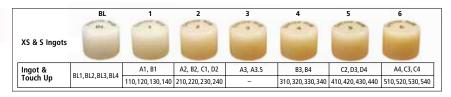
#### **Sprueing**

	Single tooth crowns, bridges				
Investment base	100 g, 200 g and 300 g				
Wax sprue ø	3 mm				
Length of wax sprue	min. 3 mm, max. 10 mm				
Length of wax object including sprue	max. 15–16 mm				
Attachment point at the wax object	thickest part of the wax-up; every bridge unit				
Sprueing angle to the wax object	in the direction of flow of the ceramic; observe the cusp angles				
Sprueing angle to the investment ring base	45–60°				
Design of the attachment points	rounded, no angels or edges				
Distance between objects	min. 3 mm				
Distance to the silicone ring	Crowns: min. 10 mm; Bridges: 5–8 mm				
Important	Larger bridges can also be placed rather in the center of the investment ring				

## Mixing ratio of the investment material

Investment material	100-g investment ring	200-g investment ring	300-g investment ring		
IPS PressVEST	13 ml liquid	26 ml liquid	39 ml liquid		
	9 ml dist. water	18 ml dist. water	27 ml dist. water		
IPS PressVEST Speed	16 ml liquid	32 ml liquid	48 ml liquid		
	11 ml dist. water	22 ml dist. water	33 ml dist. water		

### Selection of the ingots



With only seven shades, all Chromascop, A–D and the new Bleach BL shades can be easily reproduced. The final tooth shade is achieved by individual characterization with the Shade/Stains and Glaze materials.

#### 2 ingot sizes



XS

**Press parameters** 

100-g and 200-g	B °C /°F	<b>T</b> °C /°F	H min		t ✓ °C /°F / min	<b>V</b> <sub>1</sub> °C /°F	V <sub>2</sub> °C /°F	N/E
investment ring			100 g	200 g				
EP 600 / EP 600 Combi	700 / 1291	940 / 1724	10	20	60 / 108	500 / 932	940 / 1724	250 μm/ min.*
Programat EP 3000 / Programat EP 5000	700 / 1291	940 / 1724	10	20	60 / 108	500 / 932	940 / 1724	250 μm/ min.*

300-g investment ring	B °C	<b>T</b> ℃	H min 300 g	t ≁ °C/min	<b>V</b> ₁ °C	<b>V₂</b> °C	N/E
EP 600 /	700 /	950 /	40	60 /	500 /	950 /	50 μm/
EP 600 Combi	1291	1742		108	932	1742	min.*
Programat EP 3000 /	700 /	950 /	40	60 /	500 /	950 /	50 μm/
Programat EP 5000	1291	1742		108	932	1742	min.*

 ${\color{red}^{\bigstar}} \textbf{Important} \text{: If you enter the program manually, observe the abort criterion (stop speed)}.$ 







