



Christian Vordermayer Oral design Chiemsee / Germany

"Amber® Press Master is the best framework option for feldspathic porcelain powders. To make natural-like aesthetic teeth, it is the material you have been waiting for."



Uwe Gehringer Made by Uwe Gehringer Dental Laboratory / Germany

"I have never used a better lithium disilicate combined with low fusing glass-ceramics than Amber® Press Master! In my opinion, there is no better material for frameworks in highly aesthetic cases that require extreme stability."



Nondas Vlachopoulos AestheticLab® / Greece

"Amber® Press Master, an exceptional material helping me manage the most important parameters for aesthetic cases, such as strength, opalescence, value, opacity, chameleodism, chroma, refraction, diffusion of the light."



Cristian Petri Oral Design Clinic / Romania

"Amber® Press Master is the missing link in the world of Lithium Disilicate and offers you unlimited possibilities at the correct value and translucency."

HASS Corporation

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All Ceramic Materials for All-Ceramic Restorations



Lithium Disilicate-Based High Fusion Press Ingots

Amber® Press *Master*



www.hassbio.com



Human-Aid
System Supplier

beLIVE
HASS

Thermal Stability



Courtesy of CDT. Cristian Vordermayer

Compatible with Various Veneering Materials

Amber® Press *Master* ingots are compatible with various veneering materials for lithium disilicate.

- IPS e.max ceram (Ivoclar Vivadent) *
- VINTAGE LD Porcelain (Shofu) *
- MiYO (Jensen) *
- Initial Zr-FS (GC) *
- Initial LiSi (GC) *
- InSync (Jensen) *
- EX-3 PRESS LF, CZR PRESS LF (Kuraray Noritake) *
- Creation ZI-F (Creation Willi Geller) *

* Not a registered trademark of HASS Corp.

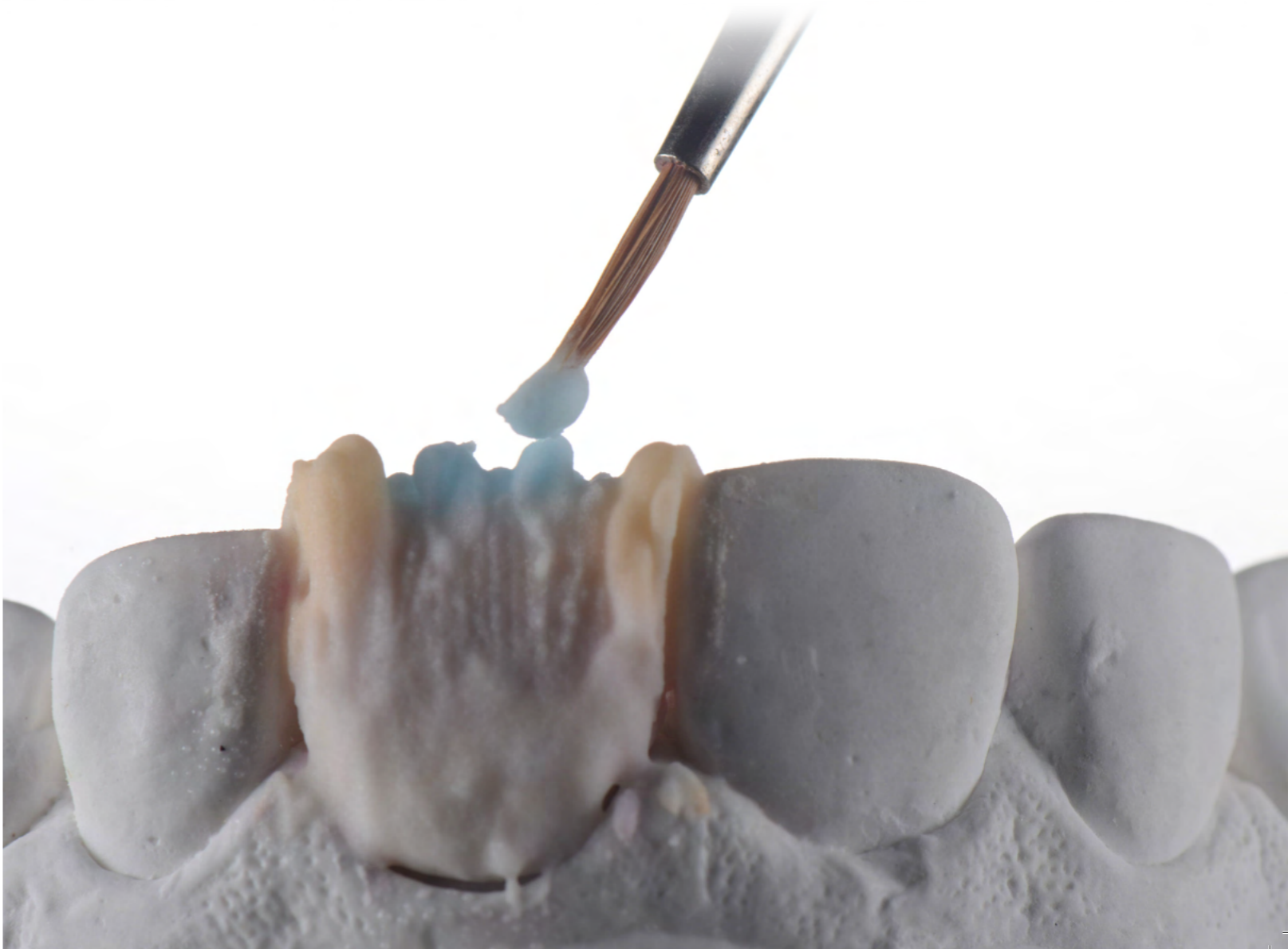
Rigid Framework for Multiple Firing - Thermal Stability

Veneering materials (Pocerine Powder)	490°C (Tg) E Product	520°C (Tg) I Product	550°C (Tg) Z Product
G Product	●	●	
Core materials (Press Ingot)			
I Product	●	●	
Amber® Press <i>Master</i>	✓	✓	✓

T_g : 577°C

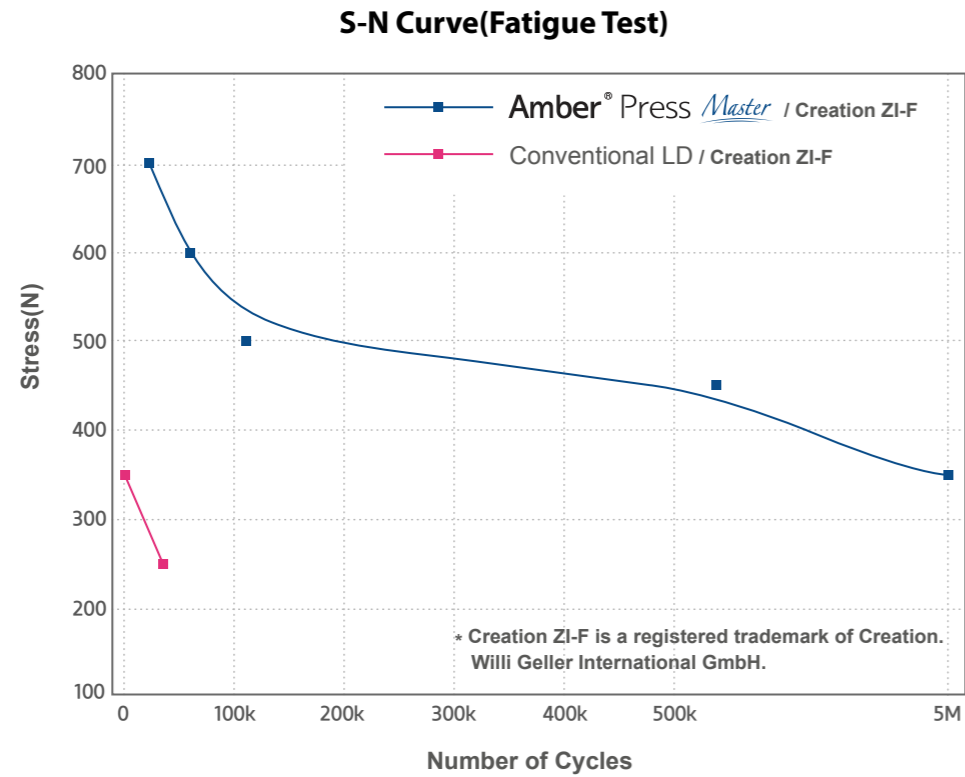
Framework from Amber® Press *Master* is quite stable and strong since it can be dealt with pretty high glass transition temperature (T_g).

*T_g : Transition Temperature



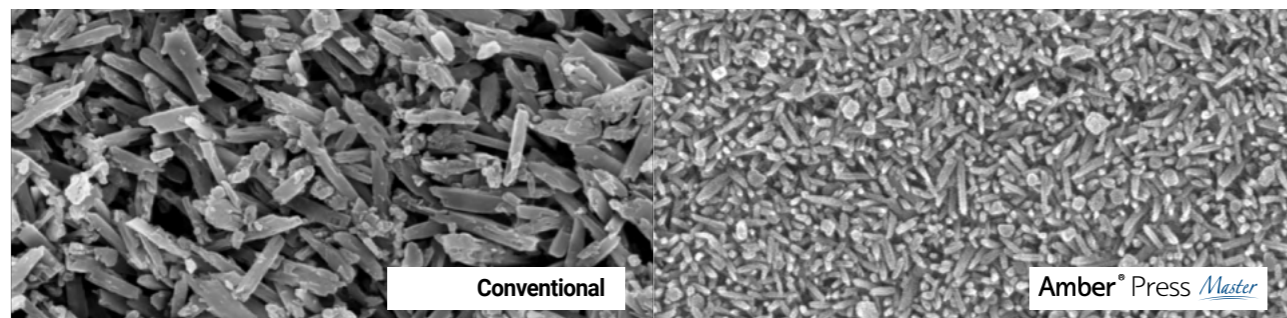
Mechanical Strength

Dynamic loading geometry



Experimental Method of Fatigue Test
 - Testing machine: Instron 5671
 - Dynamic loading geometry: load 2~800 N, 10 Hz, ~5.0×10⁶ cycles

Highly Dense structure

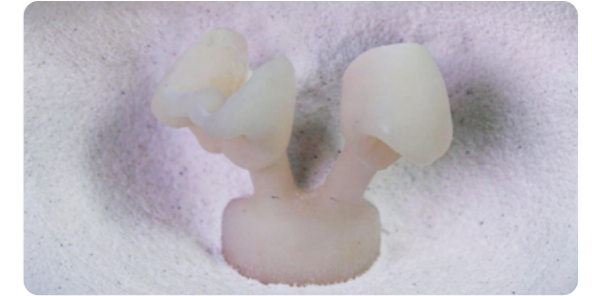


Approximately 2 times smaller size and higher density of LD crystalline
 This indicates that new LO is more soft, tough and ductile with a high crack deflection

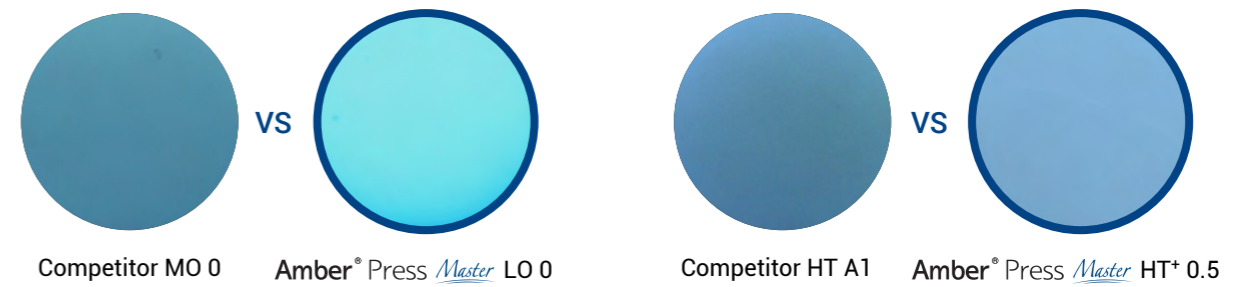
Excellent Aesthetics

Less reaction Layer

After pressing, very little reaction layer remains on Amber® Press Master. There is no need to apply any acid for clean-up, thereby ensuring a simple and nonhazardous process.



Fluorescence



Aesthetic Outcomes with Amber® Press Master



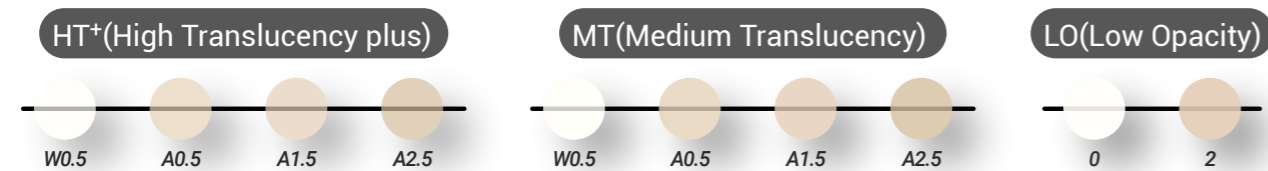
Courtesy of CDT. Cristian Vordermayer



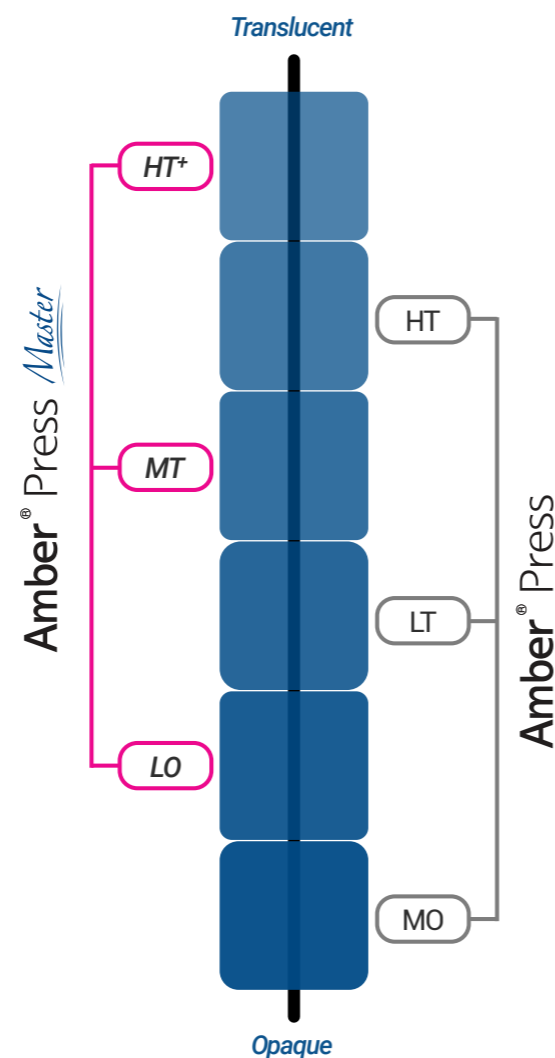
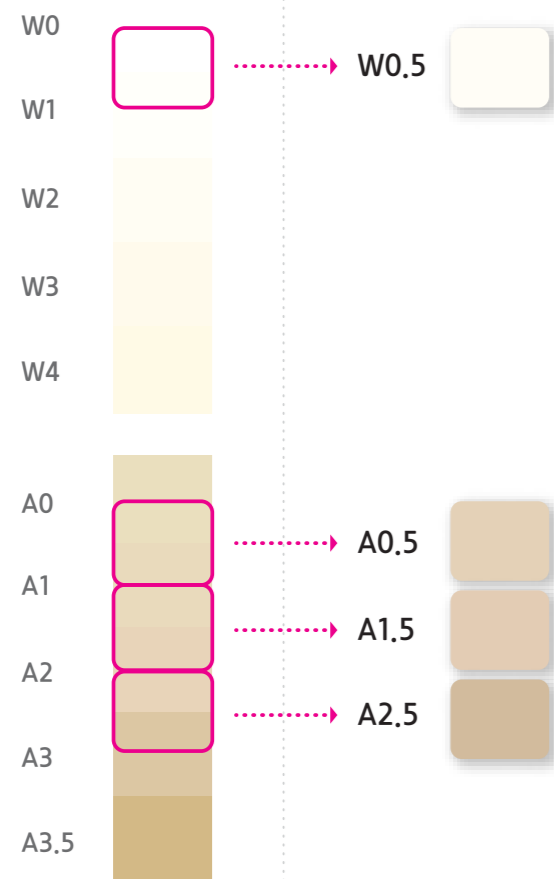
Courtesy of CDT. Cristian Petri

Create Your Masterpiece


Available shades



Amber® Press vs Amber® Press *Master*



Product Line-up

Amber® Press <i>Master</i>	Dimensions (mm)	pcs / Pack
 R10	Ø12.7 x T 10	5 ingots

Indications

- Inlays
- Onlays
- Veneers
- Anterior Single Crowns
- Posterior Single Crowns
- 3-Unit Bridge *up to the second Premolar

Pressing Schedules

Austramat 654 press-i-dent

Translucency	Start Temp. (°C)	Heating Rate (°C/min)	Max. Temp. (°C)	Holding Time (min)	Pressing Duration	Press level
HT+ / MT / LO	700	60	945	20	Auto 1	5

*Austramat 654 press-i-dent is a registered trademark of DEKEMA.

EP3000

Translucency	Shade	Investment Ring	Stand-by Temperature	Temperature Increase	Holding Temperature	Holding time	Stop Speed
HT+ / MT / LO	ALL	Small(100g)	700	60 °C/min	935	10	300µm/min

*EP3000 is a registered trademark of Ivoclar Vivadent.

NOTE: The above schedules are referential guideline only

There may be a difference between the displayed temperature and the real temperature of each furnace. When you use the Amber ingots, please verify the above standard schedule is suitable for your press furnace. If it is not, please try to find the optimum temperature through the following process.

- If there are some traces of tiny bubble on the surface of the restoration
⇒ Please reduce the maximum temperature by 5~10°C or holding time and try pressing again.
- If the marginal area of the restoration is not formed completely
⇒ Please increase the maximum temperature by 5~10°C or holding time and try pressing again.



EN

Lithium Disilicate-Based High Fusion Press Ingots

Amber[®] Press *Master*

User's Manual



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 RX Only
2195

Human-Aid
System Supplier **HASS** *beLIVE*

Amber[®] Press *Master*

User's Manual

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1. Introduction

Lithium Disilicate-Based High Fusion Press Ingots

Amber[®] Press *Master*

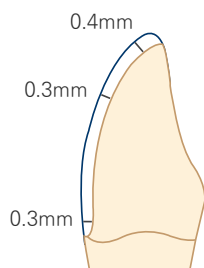


Robust Framework for multiple firing

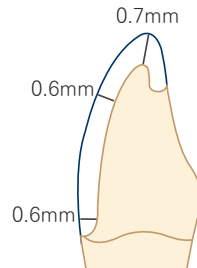
Broad compatibility with Veneer powders

Natural aesthetics with fluorescence and opalescence

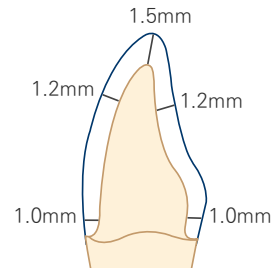
2. Preparation Guide



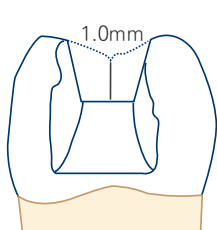
Thin Veneer



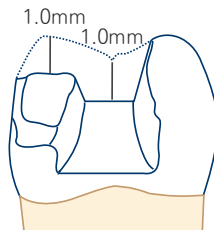
Veneer



Anterior Crown



Inlays



Onlays

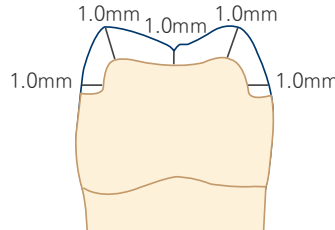
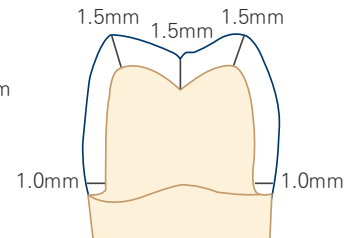


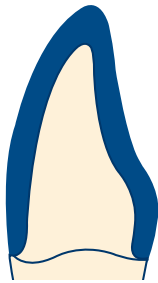
Table Top



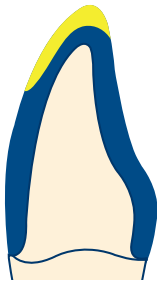
Posterior crown

3. Select the ingots(for technique & indication)

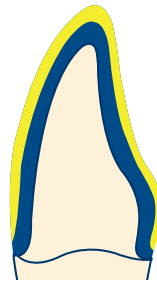
For technique



Staining technique
HT⁺ / MT



Cut-back technique
HT⁺ / MT / LO



Layering technique
HT⁺ / MT / LO

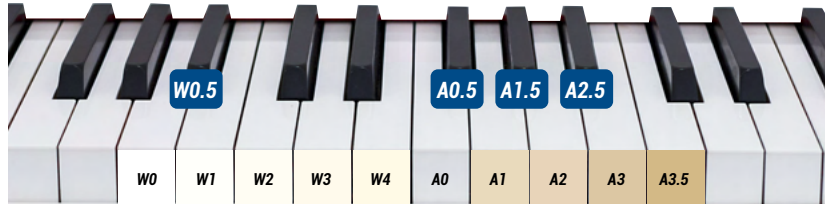
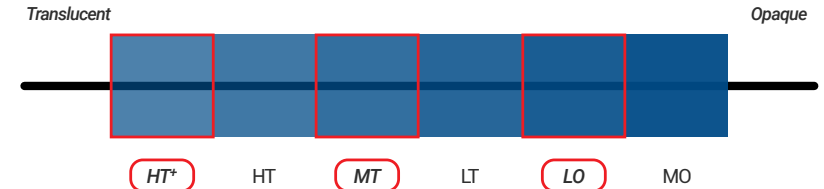
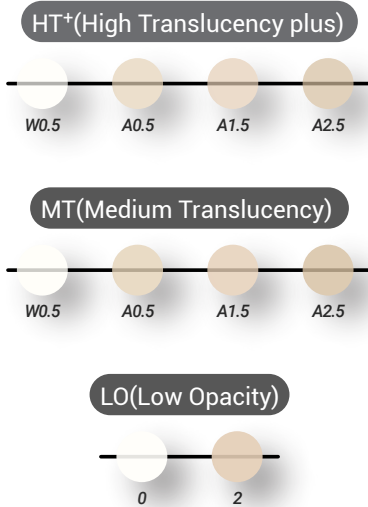
■ wax
■ layering material

For indication

Indications								
Table Tops	Thin Veneers	Veneers	Inlays	Onlays	Partial Crowns	Anterior Crowns	Posterior Crowns	3-Unit Bridges
HT ⁺ (High Translucency plus)								
MT (Medium Translucency)								
LO (Low Opacity)								

4. Select the ingots(for shade)

... Available shades



For Rosetta & Amber Press
Selection TIP
GENUINE SHADE GUIDE

Shade Matching Solution, *Selection TIP*

We suggest more detailed shade matching solution, Selection TIP.
Measure the shade using Selection TIP with 3-layered designed tooth on the frame.

W1 W2 W3 W4 A1 A2 A3 A3.5 B1 B2
PD D3 D2 C4 C3 C2 C1 B4 B3

For Rosetta & Amber Press
Selection TIP GENUINE SHADE GUIDE
HASS

5. Sprueing

... Attach the sprues in the direction of flow for ceramic so that ingot can flow smoother during pressing.



... Connect the object and investment ring base at an $\angle 45\sim 60^\circ$ angle, at a length of 3~8mm, using $\varnothing 3\sim 3.5$ mm of spruing wax.

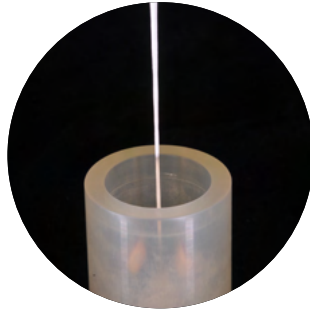


... Keep a distance of at least 5 mm between the wax-up objects and silicone ring.

... It is recommended to attach sprueing wax to each crown and it aids gas ventilation if air vent is attached in the thick part.

6. Investing

... After mixing powder and liquid by hand for 20 seconds, mix it again with vacuum mixer. If it has hardened in the pressurizer after investing, strength and surface roughness are enhanced during pressing.



TIP!



For details, please refer to the IFU from the investment material manufacturer.

Phosphate-based investment material for ceramic press

Amber[®] Vest

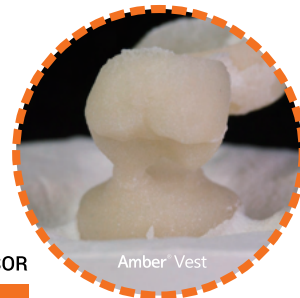


Packaging: KIT POWDER + EXPANSOR

Amber[®] Vest POWDER
5kg (50X100g)

+

Amber[®] Vest EXPANSOR-B
LIQUID (1,000ml)



Amber Vest



competitor

Comparison of Reaction Layer Generation on Surface

7. Preheating(Burn-Out)



- ... Remove the silicone ring only after the investment is completely set.
- ... Trim the upper side flat and place the investment ring in the preheating furnace.
- ... The lower side of the investment should face down. Pay attention to ensure good drainage of the melted wax.

Setting time	min. 30 min, max. 45 min.
Preheating furnace temperature	850°C(1562°F) ; Switch on the preheating furnace in time
Position of the investment ring in the preheating furnace	Towards the rear wall, tipped with the opening facing down
Final temperature upon preheating the investment ring	850°C / 1562°F
Holding time of investment ring at the temperature	100g investment ring - min. 45 min.
Ingot & plunger	no preheating
Plunger (option)	no preheating

TIP!

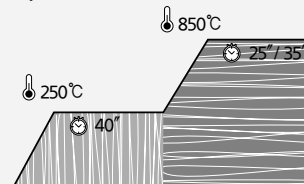


Burn-out temperature and time should be according to the manufacturer's guidelines.

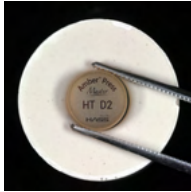
ex) Phosphate-based investment material for ceramic press

Amber® Vest

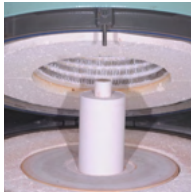
The highest temperature : 850°C



8. Pressing



... Make sure to put the ingot and plunger into the ring only at room temperature. At this time, printed side of the ingot should face up. Check if the ring bottom is placed flat.



... Proceed to pressing the ingot at the appropriate temperature.

... Pressing Schedules

Austromat 654 press-i-dent

Translucency	Start Temp. (°C)	Heating Rate (°C/min)	Max. Temp. (°C)	Holding Time (min)	Pressing Duration	Press level
HT+ / MT / LO	700	60	945	20	Auto 1	5

*Austromat 654 press-i-dent is a registered trademark of DEKEMA.

EP3000

Stand-by temperature B (°C)	Closing time S (min)	Temperature increase rate t (°C)	Holding temperature T (°C)	Holding Time H (min)	Vacuum on V1 (°C)	Vacuum off V2 (°C)	Long-term cooling L (°C)	Cooling time tL (°C)
700	3:00	60	935	10:00	750	935	690	-

*EP3000 is a registered trademark of Ivoclar Vivadent.

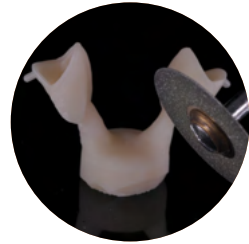
TIP!



Before you press ingots, please verify that the above recommended schedule is suitable for the furnace being used. Otherwise, try to find the optimized pressing temperature through the following process.

- If there are some traces of tiny bubbles on the surface of object, reduce the max. temperature by -5~-10°C and retry the pressing procedure.
- If the marginal area of object is not formed completely, increase the max. temperature by +5~-10°C and retry the pressing process.

9. Divesting

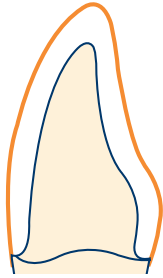


- ... First check the length of the plunger and cut the investment with a disk.
- ... Use Al_2O_3 for sandblasting.
4 bar of pressure for general blasting and 2 bar for precise blasting is recommended.
Be cautious and only work after the ring has fully cool down.

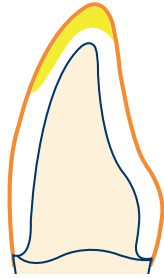
TIP!

- ! When cutting sprues, keep getting disk wet with plenty of water so that you can be cautious about micro fracturing.
Refer to the instructions for use of the corresponding investment materials. Just few amount of reaction layer remains on the result at the recommended temperature.

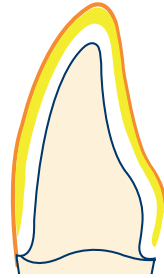
10. Characterization & Glazing



Staining technique
HT⁺ / MT



Cut-back technique
HT⁺ / MT / LO

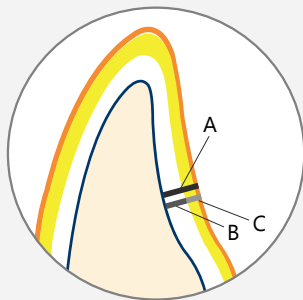


Layering technique
HT⁺ / MT / LO

■ Staining & Glazing
■ layering material

TIP!

! Layering technique thickness



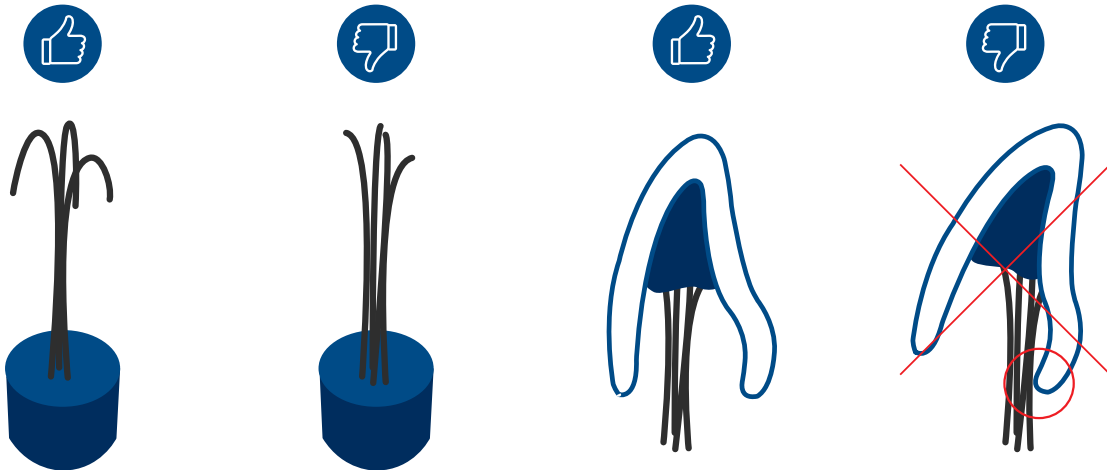
	Dimension in mm							
A	0.8	1.0	1.2	1.5	1.8	2.0	2.5	3.0
B	0.4	0.5	0.6	0.8	1.0	1.1	1.3	1.6
C	0.4	0.5	0.6	0.7	0.8	0.9	1.2	1.4

A : Overall thickness
 B : Framework thickness
 C : Layering material thickness



... After contouring, sandblasting the spot with Al_2O_3 where staining procedures would be done, using 1 bar or less pressure. Apply the stain in accordance with the target shade.

11. Supporting Pins



TIP!

- ❗ Use the honey-comb firing tray and rounded supporting ceramic pins or metal pins..
- ❗ When using, be careful that the pin does not directly touch the prosthesis.

12. Indications / Contra-Indications

... Indication



Inlays



Onlays



Veneers



Anterior Single Crowns



Posterior Single Crowns



3-Unit Bridge
*up to the second Premolar


... Contraindication

- **Very deep subgingival preparations**
- **Maryland bridges**
- **Patients with severely reduced residual dentition**
- **Bruxism**
- **Cantilever bridges**

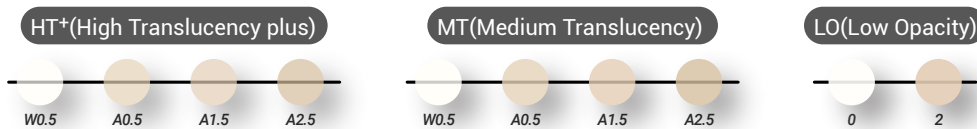
13. Product Line-up



Product Line-up

Amber® Press <i>Master</i>		Dimensions (mm)	pcs / Pack
	R10	Ø12.7 x T 10	5 ingots

Available shades





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