

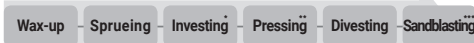
1. Overview

- Product Category : Glass-ceramic Ingot
- Product Name : Rosetta SP
- Intended Use of the Device : This product is used to make artificial tooth in order for damaged tooth to get its function and beauty restored.
- Packaging Unit : Refer to HASS standard package.

2. Instructions for use

(1) Preparation for use

Please check cracks or fractures on the products before use.



Ingot	Wax + Sprue	Invest Ring
R10 1ea	up to 0.7 g	100 g
R20 1ea	up to 1.4 g	200 g

Refer to pressing schedule.
Use glass bead, do not use Alumina bead.

(2) How to use and handle

- Wax-up**
 - Prepare model.
 - Apply die spacer twice 1mm upper from margin.
 - Wax-up fully for staining.
 - Wax-up considering occlusion.
- Sprueing**
 - Attach sprue considering smooth ceramic flow.
 - Attach on the thickest area of wax-up pattern.
 - Bridge should be invested in the 200g ring base.
 - Do not attach sprue on pontic.
 - Do not exceed the maximum length of 15 ~16mm including sprue and wax pattern.
 - Keep the sprue angle between 45 ~ 60°.
 - If the crown is viewed from the proximal, the longest side of the object should point outwards.
 - If attach one wax pattern, attach a dummy (blind) sprue on the other side.
- Investing**
 - Measure the weight of wax pattern, then decide the size of ingot and ring.
 - Carefully fill the investment ring with investment material up to the marking and position the ring, gauge with a hinged movement. Then keep the ring in a stable place not vibrating for 40 minutes.

	Small Ingot	Large Ingot
Wax Weight	up to max. 0.75 g	up to max. 2 g
Invest Ring System	100 g or 200 g	only 200 g

- Preheat burnout furnace upto 850°C.
 - Remove the ring gauge and separate investment ring from Silicon ring. Then preheat the investment ring upto 850°C in the burnout furnace. (40 ~ 60 minutes)
 - Be cautious that the failure of temperature maintenance results in pressing failure.
- Pressing**
 - Loading the Separator applied plunger and the selected Ingot in the investment ring. Then operate the program.
 - Select the proper program depending on the furnace.
 - Cooling**
 - Cooling down investment ring slowly after pressing around 1 hour.
 - Divesting**
 - Mark the length of Alox plunger on the cooled investment ring.
 - Separate the investment ring using a separating disk, and separate the pressed objects.

(3) Storage and maintenance after use

- Do not store in package open or dirty place it may contaminate the products.
- Store away from moisture, direct sunlight, and heat.
- Do not reuse or recycle the remaining part once used.

⚠ 3. Cautions

- Take care of burn when inserting Ingot into investment ring.
- Make sure plunger is well applied and dried up with parting agent before inserting.
- Inserting Ingot and plunger in the investment ring, and loading into the furnace should be finished in the shortest time.
- Cool down the investment ring to the room temperature after pressing procedure.
- Be careful not to inhale dust during divesting process and control for enough emission.
- Be cautious for separating disk not to damage the pressed object in separating from the investment ring.
- Product should be handled by dental technician.

4. Side effect

It the patient is known to be allergic to any of the components of Rosetta SP, the material must not be used to fabricate restorations.

5. Contraindication

- Posterior bridges reaching into the molar region
- 4-and more-unit bridges - Inlay-retained bridges
- Very deep sub gingival preparations - Bruxism
- Caniliever bridges / extension units - Maryland bridges
- Any other use not listed in the indications

6. Storage and Maintenance

- Store the product in room temperature and in a dry place.
- Pack and store the product properly to ensure that it is not damaged.
- Store the product at temperatures ranging from 0 ~ 40°C, in combination with relative humidity of 10% r.H ~ 90% r.H, under atmospheric pressures ranging from 500 hPa ~ 1060 hPa.

7. Mechanical and Physical Properties

- Material : Glass-ceramics
 - Flexural Strength : over 300 MPa
 - Chemical Solubility : below 100 µg/cm²
 - Coefficient of Thermal Expansion : 10.1 (±0.5) x 10⁻⁶ K⁻¹
- * This is a single-use product. * Do not reuse.

8. Pictograph

	Do not reuse		Caution		Catalogue Number
	Consult Instructions for Use		Batch Code		Date of Manufacture
	Do not use if package is damaged		Manufacturer		Authorized Representative in the European Community
	Non Sterile		Rx only		CE Marking

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Translucency	Size	Shade	Investment Ring (g)	Start Temp. (B, °C)	Heating Rate (t, °C/min.)	Max Temp. (°C)	Holding Time (min.)	Vacuum On (°C)	Vacuum Off (°C)
HT	R10	A1, A2, A3, A3.5, B1, B2, B3, B4	100	700	60	900	20	700	900
		910				910			
	C1, C2, C3, C4, D2, D3, D4	200	910			40	910		
	A1, A2, A3, A3.5, B1, B2, B3, B4		920				920		
LT	R10	A1, A2, A3, A3.5, B1, B2, B3, B4	100	700	60	890	20	700	890
		906				905			
	C1, C2, C3, C4, D2, D3, D4	200	900			40	900		
	A1, A2, A3, A3.5, B1, B2, B3, B4		910				910		
MO	R10	M00, M01, M02, M03, M04	100	700	60	915	20	915	
	R20	M00, M01, M02, M03, M04	200			920	40	920	

Note

- There may be a little difference between the displayed temperature and the real temperature of each furnace. When you use the Rosetta® SP rings, please verify that the above standard schedule is suitable for your press furnace. If it is not, please try to find the optimized pressing temperature through the following processes.
 - If there are some traces of tiny bubble on the surface of pressed restoration
 - ⇒ Please reduce the maximum temperature by 5~10°C and try the pressing again.
 - If the marginal area of restoration is not formed completely
 - ⇒ Please increase the maximum temperature by 5~10°C and try the pressing again.
- For the baking firing, rounded supporting pins and object fix putty should be used.