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# Gemma Series

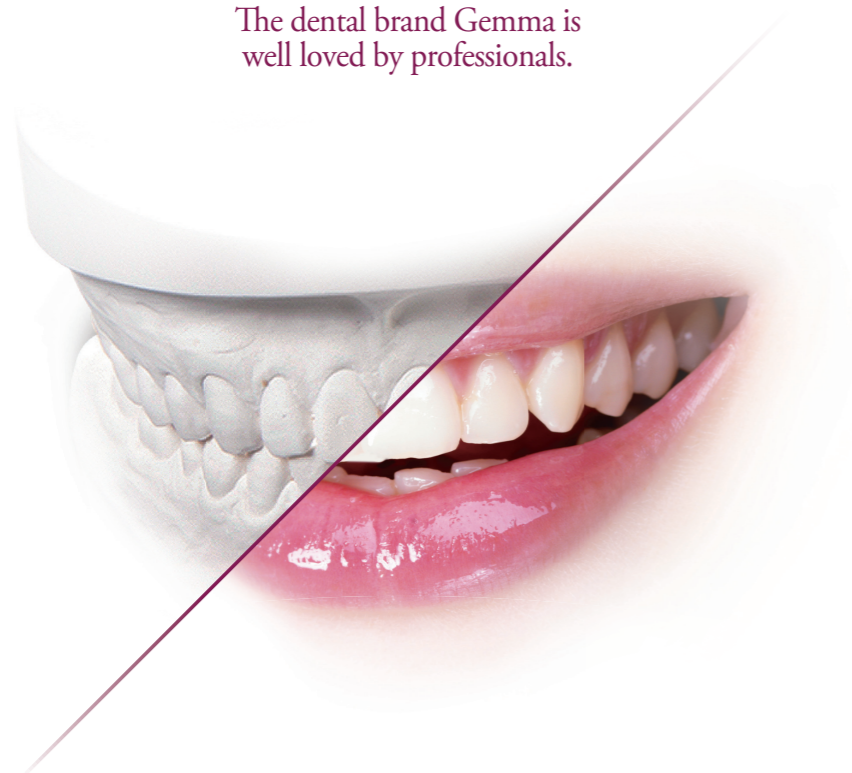
Premium Dental Brand

# The profound technical competence of the professional dental brand Gemma!

There is an abundance of passion and effort.  
Clear objectives gain trust.

That's what makes us professionals.

The dental brand Gemma is  
well loved by professionals.



www.gemma.co.kr

## Gemma



**Gemma  
Impression  
Materials**

Light Body  
ISO 4823  
Type 3

**Gemma  
Impression  
Materials**

Medium Body  
ISO 4823  
Type 2

**Gemma  
Impression  
Materials**

Heavy Body  
ISO 4823  
Type 1

**Gemma  
Impression  
Materials**

Blue Bite  
DIN 13903

**Gemma  
Impression  
Materials**

Heavy TUBE  
ISO 4823  
Type 1  
base / catalyst

**Gemma  
Impression  
Materials**

PUTTY  
ISO 4823  
Type 0  
base / catalyst

**Gemma  
Fish-Bone Tray**

Tray  
Posterior  
Halfside  
Sideless  
Anterior  
Quadrant  
Full Arch

**Gemma  
Surgical Light**

**Gemma  
Shade Light**



**Gemma  
MATRIX  
STRIP 8**



**Gemma  
MATRIX  
STRIP 10**



**Gemma  
SHIMSTOCK**



**Gemma  
Latex Polymer  
Latex Chlorine  
Glove**  
XS, S, M / size



**Gemma  
PLASEP  
Plaster  
Separator**  
Spray type



**20  
Super  
Gemma  
Die stone**  
Model antagonist  
teeth for dental clinic  
Model abutment  
teeth for dental clinic  
Implant model  
CAD/CAM work



**23  
Mega  
Gemma  
Dental stone**  
Model antagonist  
teeth for dental clinic  
Model abutment  
teeth for dental clinic



**24  
Orthodontic  
Gemma  
Orthodontic  
Ston**  
Model antagonist  
teeth for dental clinic  
For orthodontic  
model



**40  
Silky  
Gemma  
Plaster of  
Paris**  
For model base  
of dental clinic



**Gemma  
Vest C&B  
Investment**  
Investment  
for phosphate cast

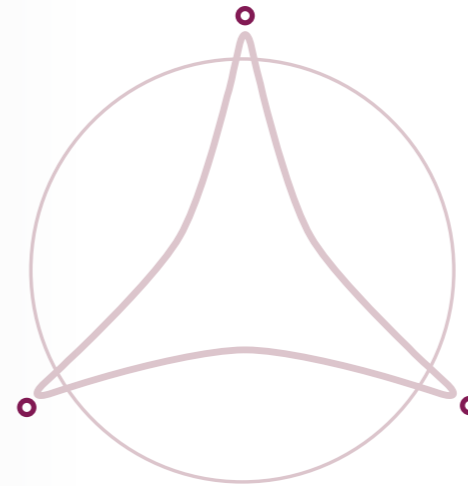


**Gemma  
Vest C&B  
EXPRESS  
Investment**  
Investment  
for phosphate cast

# Gemma

Know-how of the company that specializes in dental material for about 50 years makes the difference. Experts may feel the "DIFFERENCE" more precisely.

The choice of professionals is Gemma



### Harmony & Unity

We will always be there for our customers

### Responsibility

We will commit ourselves for the satisfaction of our customers

### Creative Development

We will value investment in product development

**2013** · Introduction of phosphate investment  
· Commendation as a Prestigious Long-live Company

**2012** · Presidential Commendation (national contribution through economic activity)

**2011** · Best Prize of Sustainability Management  
· Certified ISO 9001:2008, ISO 14001:2004  
(Quality/Environment management  
System Certification)

**2010** · Certified of Eco Labelling(PAC, Aluminum Sulfate)  
· Obtain a patent coagulant process  
· Certified of "NEW EXPORTS 300"(by KITA)  
· Designated "promising small & medium-sized  
businesses for export"(by small & medium-sized  
businesses Administration)

**2009** · Receive the Government(SMBA) director citation  
(by small & medium-sized business Administration)  
· Receive the Small & medium Business Corporation chairman of the board citation  
(by small & medium Business Corporation)

**2008** · Certified of good manufacturing practice(GMP)  
· Plastery Investment used for Investment casting  
· The 2nd chemistry day ULSAN mayor award

**2007** · Certified of a Company-affiliated Research Center(by KITA)  
· Certified of Management Innovation Type Business  
(by SMBA for Pusan & Ulsan District)  
· Certified of Industrial Innovation Type Business  
(INNO-BIZ) (by SMBA for Pusan & Ulsan District)  
· Certified of CLEAN-Factory(by Kosha)

**2005** · Company name changed to SAMWOO Ind.Co.,Ltd  
· Produced and introduced Ultra hard gypsum

**1989** · Expansion of PAC Plant at Ulsan Plant was completed

**1963** · Produced and introduced gypsum products first time in Korea

**1957** · Samwoo Yusan Industrial Co. Ltd. was established

# Gemma Series

Premium Dental Brand

The best technology  
creates premium products.



## Orthodontic Gemma 24

Model antagonist teeth for dental clinic  
For orthodontic model

### Orthodontic stone

- Summary
  - Use of a unique recipe consisting of economic feasibility with strictly chosen materials.
  - Excellent reproduction features and aesthetics for orthodontic treatment.
  - Suitable for high strength delicate model reproduction by mixing fine particles, nano particles and expansion inhibitor.
  - Consistent quality by a state-of-the-art non gravity mixture process
- Characteristics
  - Environmentally-friendly product made from natural materials.
  - Excellent reproduction of dental model with lower expansion rate.
  - It has the strength to avoid breaking into pieces during trimming or working procedures.

Standard mixing ratio (%)	Color	Mixing time(s)	Working time(min)	Setting time(min)	Compressive strength (Mpa) Wet	Compressive strength (Mpa) Dry	Setting expansion (%)
24	White	60	6	11	40	80	0.15



18kg(1.5kg×12EA)

## Super Gemma 20

Inlay for clinical and implant models,  
Die working model, CAD/CAM working

### Die stone

- Summary
  - Stable and low expansion rate (achieves 0.08% expansion rate)
  - High strength by minimizing the size of pore particles during crystal growth
  - Excellent aesthetic superiority from high gloss of surface of the model
  - Consistent quality by a state-of-the-art non gravity mixture process
- Characteristics
  - Environmentally-friendly product made from natural materials.
  - Excellent handling property with its flowability
  - No dispersal of power during insertion and/or mixing process

Standard mixing ratio (%)	Color	Mixing time(s)	Working time(min)	Setting time(min)	Compressive strength (Mpa) Wet	Compressive strength (Mpa) Dry	Setting expansion (%)
19-20	Gold Brown	60	7	11	60	110	0.08



18kg(1.5kg×12EA)

## Silky Gemma 40

For model base  
of dental clinic

### Plaster of Paris

- Summary
  - Superior flow draws fine surface without additional desecration process.
  - Used for operations that do not require additional hardness such as Base
  - Economic model plaster widely used for research and diagnosis model.
  - Consistent quality by a state-of-the-art mixture process.
- Characteristics
  - Environmentally-friendly product made from natural materials.
  - Aesthetic stability with its high glossy white color.

Standard mixing ratio (%)	Color	Mixing time(s)	Working time(min)	Setting time(min)	Compressive strength (Mpa) Wet	Compressive strength (Mpa) Dry	Setting expansion (%)
40	White	60	6	11	12	24	0.1



20kg(bag)

## Mega Gemma 23

Model antagonist teeth for dental clinic  
Model abutment teeth for dental clinic

### Dental stone

- Summary
  - Product made of high quality raw materials with the twice processed very fine powder.
  - Superior fine reproducibility and smooth surface.
  - Excellent reproduction of dental model with lower expansion rate.
  - Consistent quality by a state-of-the-art non gravity mixture process.
- Characteristics
  - Environmentally-friendly product made from natural materials.
  - It has the strength to avoid breaking into pieces during trimming or working procedures.
  - Excellent aesthetic superiority from high gloss of surface of the model.

Standard mixing ratio (%)	Color	Mixing time(s)	Working time(min)	Setting time(min)	Compressive strength (Mpa) Wet	Compressive strength (Mpa) Dry	Setting expansion (%)
23	Yellow, Blue	60	6	11	40	80	0.15



18kg(1.5kg×12EA) / 12kg(1box)

## Gemma Vest C&B Gemma Vest C&B EXPRESS

### Investment

- Summary
  - Product with excellent stability and appropriate expansion
  - Smooth casting surface by implementing soft micro particles
  - Easy use and storage as liquid is not affected by temperature change
- Vest C&B Characteristics
  - Working Time: 5 Minutes
  - Setting Required Prior to Burnout: 1 Hour
  - Setting Expansion: 0.5%
  - Thermal Expansion: 1.5%
  - Burnout Temperature: 871°C ~ 927 °C
- Vest C&B EXPRESS Characteristics
  - Working Time: 4 Minutes
  - Setting Required Prior to Burnout: 1 Hour
  - Setting Expansion: 0.6%
  - Thermal Expansion: 1.4%
  - Burnout Temperature: 704°C ~ 982 °C



10kg Box  
(Powder 2kg X 5EA,  
Liquid 1L X 2EA)

10kg Box  
(Powder 100g X 100EA,  
Liquid 1L X 2EA)

# Gemma

Light Body  
Heavy Body  
Medium Body  
BlueBite  
Heavy Body TUBE -CATALYST -BASE  
PUTTY -CATALYST -BASE



## Gemma Impression Materials Heavy Body

(50ml/1ea) W/T 1'30" S/T 3'30"

- Accurately flowing consistency & it's operability is superior.
- HB properly maintains stable hardness in harmony with LB.
- Easy to demould, thanks to high elastic recovery from deformation after setting.
- Superior harmonized property with any other LB.
- The properties of thixotropic prevent the flowing of the impression when working.



## Gemma Impression Materials BlueBite

(51ml/1ea) W/T 1'30" S/T 3'30"

- Accurately flowing consistency & it's operability is superior.
- As interocclusal recording material, high level of hardness leads to a certain dimensional stability.
- The properties of thixotropic prevent the flowing of the impression into interdental spaces.
- Applying Snap-set technology guarantees sufficient working time & short oral dwelling time. (Excellent dimension stability and exact detail reproduction.)



## Gemma Impression Materials Light Body

(50ml/1ea) W/T 1'30" S/T 3'30"

- Accurately flowing consistency & it's operability is superior.
- Actualizes sophisticated technology such as AAF(Air Adaptation Force) & Snap-Set.
- Excellent tear-resistance results in stability for securing a part of margine.
- The properties of thixotropic prevent flowing of impression from maxillary regions or anterior regions.
- Outstanding precise detail reproduction & ultimate hydrophilia in moist impression regions.



## Gemma Impression Materials Heavy Body TUBE

(150ml X 2ea / 300ml) W/T 1'30" S/T 3'30"

- Easy to mix softly for convenient working.
- Heavy tube properly maintains stable hardness in harmony with LB.
- Easy to demould, thanks to high elastic recovery from deformation after setting.
- Superior harmonized property with any other LB.
- The properties of thixotropic prevent the flowing of the impression when working.



## Gemma Impression Materials Medium Body

(50ml/1ea) W/T 1'30" S/T 3'30"

- Operability is superior
- Actualizes sophisticated technology such as AAF(Air Adaptation Force) & Snap-Set.
- Excellent tear-resistance results in stability for securing a part of margine.
- The properties of thixotropic prevent flowing of impression from maxillary regions or anterior regions.
- Outstanding precise detail reproduction & ultimate hydrophilia in moist impression regions.



## Gemma Impression Materials PUTTY

(280ml X 2ea / 560ml) W/T 1'30" S/T 3'30"

- Kneading with no filling of oil in hand.
- Significant working time prevents errors when taking simultaneous impressions.
- Shortening Chair Time during a Two-step impression by applying Snap-Set technology.
- High level of hardness leads to a certain dimensional stability. (Recommend for CAD CAM working)



# Gemma Fish-Bone Tray

Posterior  
Halfside  
Sideless  
Quadrant  
Anterior  
Full-arch



## Gemma Fish-Bone Tray – Posterior

(50ea /box) SIDE WALL 10~15mm



- It is applied to general crown or inlay impression taking.
- The stainless frame prevents modification caused by the twisted tray.
- Resistance against plaster weight prevents modification.
- It is possible to present a customized impression by shaping the tray depending on the oral condition of the patient.
- The groove at the side wall reinforces the physical combination between the impression materials and tray.
- Economical as it reduces the waste of impression materials.

## Gemma Fish-Bone Tray – Halfside

(50ea /box) SIDE WALL 7mm



- It is used in case of interference caused by teeth height.
- It is applied to general crown or inlay impression taking.
- The stainless frame prevents modification caused by the twisted tray.
- Resistance against plaster weight prevents modification.
- It is possible to present a customized impression by shaping the tray depending on the oral condition of the patient.
- The groove at the side wall reinforces the physical combination between the impression materials and tray.
- Economical as it reduces the waste of impression materials.

## Gemma Fish-Bone Tray – Sideless

(50ea /box) SIDE WALL 4mm



- Application of a simple single case can lead to great savings in material.
- It is applied to general crown or inlay impression taking.
- The stainless frame prevents modification caused by the twisted tray.
- Resistance against plaster weight prevents modification.
- It is possible to present a customized impression by shaping the tray depending on the oral condition of the patient.
- The groove at the side wall reinforces the physical combination between the impression materials and tray.
- Economical as it reduces the waste of impression materials.

## Gemma Fish-Bone Tray – Quadrant

(35ea /box) SIDE WALL 10~14mm



- It is used for false teeth or bridge impression.
- It is applied to general crown or inlay impression taking.
- The stainless frame prevents modification caused by the twisted tray.
- Resistance against plaster weight prevents modification.
- It is possible to present a customized impression by shaping the tray depending on the oral condition of the patient.
- The groove at the side wall reinforces the physical combination between the impression materials and tray.
- Economical as it reduces the waste of impression materials.

## Gemma Fish-Bone Tray – Anterior

(35ea /box) SIDE WALL 10~20mm



- It is possible to customize an impression.
- It minimizes the patient's inconvenience through its ergonomic design.
- It is applied to general crown or inlay impression taking.
- The stainless frame prevents modification caused by the twisted tray.
- Resistance against plaster weight prevents modification.
- The groove at the side wall reinforces the physical combination between the impression materials and tray.
- Economical as it reduces the waste of impression materials.

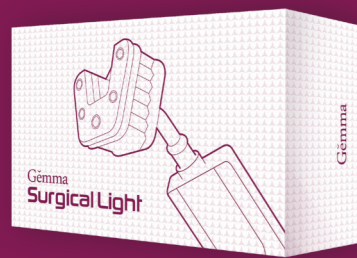
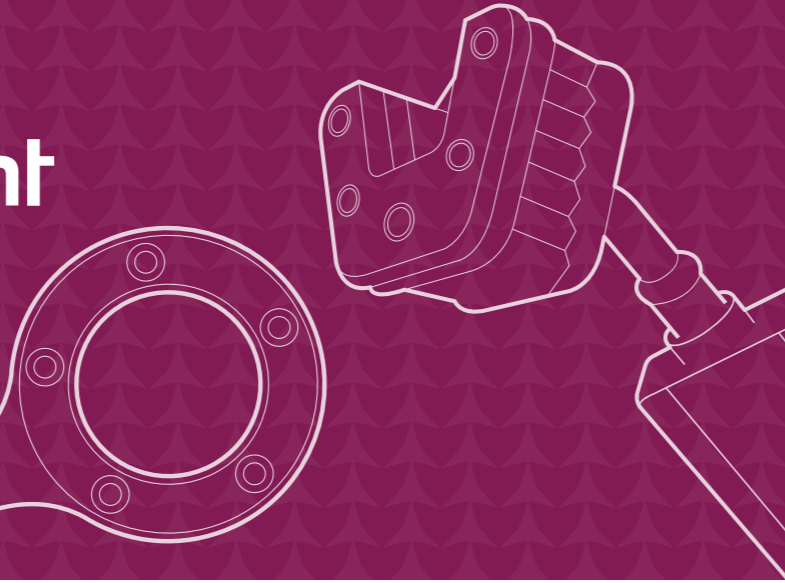
## Gemma Fish-Bone Tray – Full-arch

(20ea /box) SIDE WALL 10~20mm



- It is applied to orthodontic treatment, full denture models, custom trays, whitening trays, night guards, athletic guards, study models.
- The impression trays are anatomically designed for easy insertion and removal.
- Can be easily moulded and trimmed for custom fit.
- Tear resistant quality mesh.
- The groove at the side wall reinforces the physical combination between the impression materials and tray.

# Gemma Surgical light Shade light



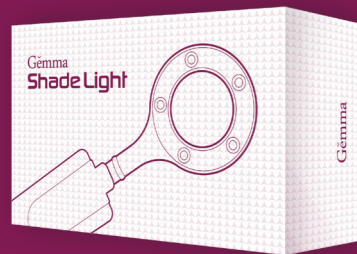
**Components**  
Battery : 2EA/LED-Unit : 1EA  
Mouth-Prop : 4EA/Charger : 1EA

**Weight**  
40g (Battery + LED unit + Mouth Prop)

## Gemma Surgical light

- Only 36g – 38g of weight will give no burden to your patient.
- Gemma light has 3 steps of optimized preset brightness, 3,000Lux – 9,000Lux at 5cm distance.
- Detachable mouth prop and LED light are designed for Auto-clave sterilizing.
- With only 1hr of charging, It runs more than 6hrs (3,000 Lux) to 1hr (9,000Lux).

Section	Contents	Remark
The number of lens	5EA	
Brightness	3,000 / 6,000 / 9,000 Lux	Applying distance : 5cm
Color Temperature	5,300 Kelvin	
Running-time	6 hours under 3,000Lux 3 hours under 6,000Lux an hours under 9,000Lux	
Recharging-time	45~60min	
Sterilization	LED-Unit and Mouth-Prop are able to be sterilized with Autoclave	



**Components**  
Battery : 2EA/Shade light : 1EA  
Charger : 1EA

**Weight**  
33g (Battery + Shade light)

## Gemma Shade light

- It structurally offers a clear visual of the patient and less possibility of shadowing by any obstruction
- Constant natural light regardless of any external environments such as weather or time
- Remaking-work is reduced by high quality prosthesis production based on accurate shade
- Easy to shift the unit for your convenience.

Section	Contents	Remark
The number of lens	5EA	
Brightness	3,000 / 6,000 / 9,000 Lux	Applying distance : 5cm
Color Temperature	5,300 Kelvin	
Running-time	6 hours under 3,000Lux 3 hours under 6,000Lux an hours under 9,000Lux	
Recharging-time	45~60min	
Sterilization	LED-Unit and Mouth-Prop are able to be sterilized with Autoclave	



## Gemma Latex Polymer Glove

### Powder Free Examination Glove

(100ea /box) Size : XS, S, M

- It is close to scent-free as it undergoes the additional process of minimizing the distinct smell of natural latex.
- The powder-free hypo-allergenic agent minimizes skin trouble caused by powder.
- Equipped with polymer coating, it allows for gentle application without powder.
- It displays perfect wearing sensation through its moderate elasticity while ensuring a nice fit for the fingers and wrist.
- The micro-embossing allows for good grip sensation while preventing slippage.



## Gemma Latex Chlorine Glove

### Powder Free Examination Glove

(100ea /box) Size : XS, S, M

- With its low protein content (max 50ug/g), it causes less allergic reaction even to sensitive skin.
- The powder-free hypo-allergenic agent minimizes skin trouble caused by powder.
- The chlorine coating enables it to be gently applied without powder.
- It displays perfect wearing sensation through its moderate elasticity while ensuring a nice fit for the fingers and wrist.
- The micro-embossing allows for good grip sensation while preventing slippage.



## PLASEP

Plaster separator Small package 250ml

### Summary

- Gemma PLASEP helps separate gypsum model from mold, easily and quickly due to coating surface.
- It makes model surface glossy for using conveniently.

### Characteristics

- The surface is softened by filling small plaster pores.
- It perfectly removes the form without leaving any foreign substance on the tray.

## Gemma MATRIX STRIP 8 MATRIX STRIP 10

38μ(8mm\*21m) / 38μ(10mm\*21m)

- Transparent and thin.
- Slipped over the tooth and wedged in place in seconds.
- Strong enough for any matrix procedure, yet flexible to form to any tooth anatomy.



## Gemma SHIMSTOCK

8μ(8mm\*10m)

- Single use to protect against cross-contamination
- Extremely tear-resistant and ideal for resilience testing metal foil without a color coating.
- Provides the practitioners extremely accurate measurement of the restoration.



# Gemma



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