

### **PERIODONTAL** Bone & Skin Allograft Products

### SureOss® Family

- SureOss<sup>®</sup> Cortical Bone - Powder / Chip
- · SureOss<sup>®</sup> Plus Cortical Bone with CA - Powder / Chip
- SureOss<sup>®</sup> Collagen Cortical Bone with Collagen - Sponge Block
- · SureOss<sup>®</sup> Paste Cortical Bone Matrix - Paste
- SureOss<sup>®</sup>-D
   Demineralized Cortical Bone Powder / Chip

### OsteOss<sup>™</sup> Family

- · OsteOss<sup>™</sup> Cortical & Cancellous Bone - Powder / Chip
- OsteOss<sup>™</sup> Plus Cortical & Cancellous Bone with CA(Calcium Phosphate) - Powder / Chip
- · OsteOss<sup>™</sup> Paste Cortical Bone Matrix with Cancellous Bone - Paste

### **DBM Products**

- SureFuse<sup>®</sup> Demineralized Bone Matrix - Gel / Putty
- · ExFuse<sup>™</sup> Demineralized Bone Matrix with Cancellous Bone - Gel / Putty
- BellaFuse<sup>™</sup>
   Demineralized Bone Matrix Flexible Sheet

### **FDBA Products**

- · CANOSS<sup>™</sup> Cancellous Bone - Powder / Chip
- · INGROSS<sup>™</sup> Cortical & Demineralized Cortical Bone - Powder / Chip
- Genesis<sup>™</sup>
   Cancellous & CorticoCancellous Bone Block

### **ADM Product**

• SureDerm<sup>®</sup> Acellular Dermal Matrix - Sheet



# The Global Leader of Bio Engineering HansBiomed Corp.

### Hans R&D Center



#### HansBiomed Head Office

- · Establishment: September 1999
- Primary Manufacturing Goods: Allograft Tissue / Silicone Polymer Medical Devices / Bio Technology
- · Location: 807, 55, Seongsuil-ro, Seongdong-gu, Seoul, Korea
- · Company Website: http://www.HansBiomed.com
- Family Website: http://www.HansGBR.com (Periodontal) http://www.BellaGel.net (Breast Implant) http://www.mintlift.com (Thread Lifting)

#### HansBiomed Daeduk Institute

- · Establishment: June 2002
- · Total Area: 11,337 m<sup>2</sup>
- · Total Floor Area: 2,500 m<sup>2</sup>
- · Location: 461-37. Jeonmin-dong. Yuseong-gu. Daejeon. Korea

#### HansBiomed USA Branch Office

- · Establishment: March 2011
- · Primary Manufacturing Goods: Bone&Skin Products
- · Location: 140 Sylvan Ave Suite #204 Englewood Cliffs, NJ 07632, USA



- Dressing room
- Production preparation room
- Raw material storage room
- Air conditioning room
- Bone processing room
- Bone pulverization room
- Primary packaging room
- Freeze-drying control room
- Production room
- Final packaging room
- Storage for final products
- Office & Archive



- Reagent preparation room
- E.O. sterilization room
- Production preparation room
- Storage for sterilizing equipments
- SureDerm production room
- Micronized production room
- Freeze-drying room
- Product packaging room



- Dressing room
- Clean shower C/S
- Production preparation room/raw material storage
- Production room No. 1
- Mandrel storage
- Washing room
- Shell storage/Patch room
- Production room No.2
- Q.C. facilities
- Storage for final products
- Final packaging room

### Safety, Trust, Innovation Hans Achievement











**ISO 13485** 

HansBiomed Corp. was founded in 1993 with the specialized business project titled

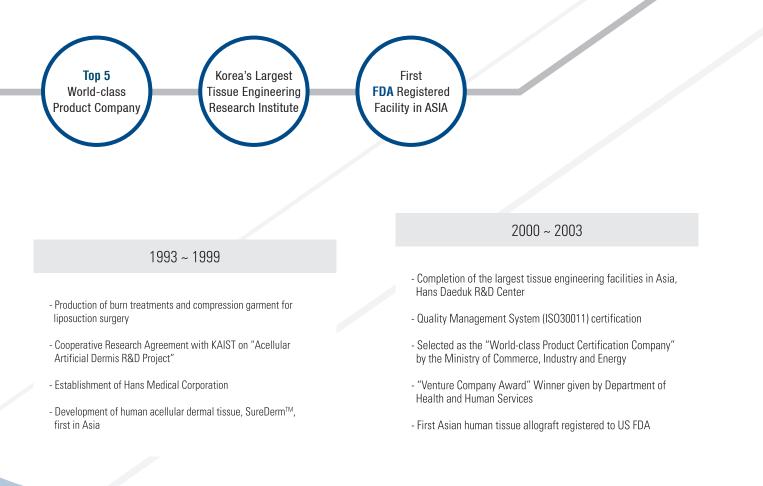
"wound healing and scar prevention".

Thanks to our young researchers' creativity and hard work, we could secure the core technologies

()

that are soon applied to manufacture the cutting-edge medical products.

These products manufactured at the Hans Daeduk R&D Center are being exported to over 25 countries around the world.



- Established the First Domestic Tissue Bank
- First **KOSDAQ**-Listed biocompany

First **510(K)** Clearance in ASIA

#### 2009 ~

- US FDA 510(k) clearance for "DBM allograft for orthopedic application (SurFuse  $^{\rm TM},$  ExFuse  $^{\rm TM})$  "
- Establishment of Hans Biomed USA, Inc.
- Winner of 18th Grand Prize of "Business Innovation (Prime Minister citation)"
- Listed in "KOSDAQ" as first in the industry
- Breast implants selected as Next Generation of World Class Product, organized by Ministry of Commerce, Industry and Energy
- "Technology Commercialization Award" organized by Daeduk Special District R&D Head Office
- "Sol-Gel drug supported multiple fractures bone fillers development, Minsister of Knowledge Economy Award" hosted by NanoKorea
- Selected as the "Primary Export Business" by the Small and Medium Business Administration
- Awarded the "Prime Minister Award" for venture companies
- Selected as the "Best technology business enterprise" by Daejeon TechnoPark

### 2004 ~ 2008

- Scar prevention and management product "Scar Clinic" launched in Korea
- First human tissue allograft safety management institution approved by the KFDA
- Received the first domestic license from KFDA for the establishment of "Tissue bank"
- As first in Asia, commercialized DBM (Demineralized Bone Matrix) products
   (Product name: SurFuse<sup>™</sup>-Gel/Putty, ExFuse<sup>™</sup>-Gel/Putty)
- As first in Asia, registered breast implants at CE
- Korea International Trade Association ("Tower of 100 Million Dollars in Export")

# Excellent Biocompatibility and Bone Formation **Periodontal Allograft Bone**

#### Cancellous Allograft - FDBA: Freeze Dried Bone Allograft

The structure of Open trabecular of Cancellous particle, like of host bone, contains mineral structure and collagen, so that it accelerates cells to be settled and a bone to be remodeled. Also this product creates ideal environment for fast revascularization and remodeling, as a result, healthy bones can be formed. Osteogenic progenitor cells from new blood vessels are differentiated into Osteoblast and cause a new bone around Trabecular of the grafted bone to be settled, and at the same time Osteoblast absorbs the grafted bone until the grafted bone substitutes with a new bone. This process, creeping substitution, helps to form healthy and strong bone.

### Cortical Allograft - FDBA: Freeze Dried Bone Allograft

Cortical Bone is a compact type of bone tissue that used for supporting volume of bone for such procedures as sinus lift, ridge augmentation, and socket extraction. It provides fine lamellar structure and is effectively remodeled into natural bone. Absorption of cortical particles proceed with revascularization and enlarge canal space is filled with migrated osteoblasts. Then, healthy and strong bone is formed.

### Bone Block Allograft - FDBA: Freeze Dried Bone Allograft

Compared to the particle form of allograft, this block form of bones are ideal for recovering volume of Ridge, which has high absorbability. Cancellous bone parts of allograft are remodeled into a new bone through fast revascularization. In addition, the cortical bone parts provide framework for mechanical strength and forms part of healthy and strong bone by remodeling process, which ultimately facilitates the dental implantation. This block bone allograft eliminates the need of autologous bone extraction and therefore it decreases a possibility of secondary pains and complications from it. This then leads to a shorter period of patient's recovery.

### **DBM Allograft - Demineralized Bone Matrix**

DBM are demineralized bone matrix retaining growth factor and other proteins such as BMP, without lipid and mineral contents, so that it can form healthy and high quality new bone through its osteoinductive and osteoconductive potential. DBM is basically composed of demineralized bone particles and liquid carrier to helps the action of growth factor and to enhance its handling. DFDBA (Demineralized Freeze Dried Bone Allograft) are referred to the bone powder before this mixing process.





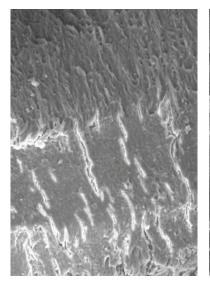




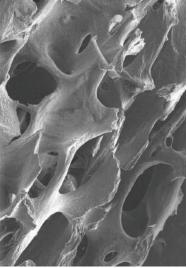
### **Cortical VS Cancellous Bone**

	Cortical Allograft	Cancellous Allograft
Volume enhancement	★★★★☆	★★★☆☆
Space maintenance	★★★★☆	★★★★☆
Density	★★★★☆	★★★☆☆
Osteoconductive	★★★☆☆	★★★★☆
Osteoinductive	★★★☆☆	★★★☆☆

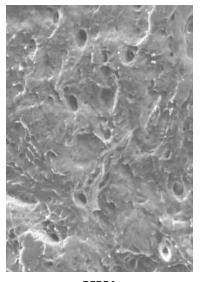
### Cross section pictures of bone



Cortical



Cancellous



**DFDBA** (Demineralized Freeze Dried Bone Allograft)

### SureOss® Family

Product	Contents	Туре	Size
SureOss®	Cortical bone (FDBA)	Powder Chip	0.25 cc 0.5 cc 1 cc
SureOss <sup>®</sup> Plus	Cortical bone Calcium(HA) CMC	Powder Chip	0.25 cc 0.5 cc 1 cc
SureOss <sup>®</sup> Collagen	Cortical bone Collagen	Sponge Bone Block	5 x 5 x 8 mm 8 x 8 x 8 mm
SureOss <sup>®</sup> Paste	SemiCortical bone CMC	Paste	0.3 cc 0.5 cc 1 cc
SureOss <sup>®</sup> -D	Demineralized Cortical bone (DFDBA)	Powder Chip	0.25 cc 0.5 cc 1 cc

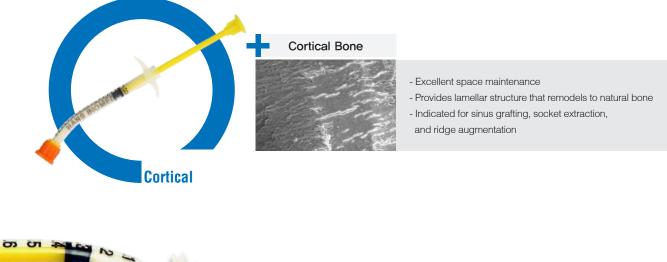
## SureOss<sup>®</sup> Family

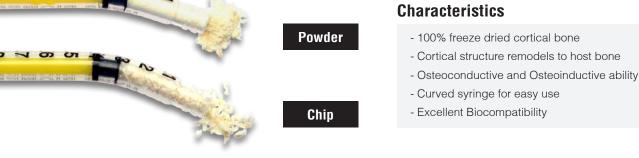
- SureOss<sup>®</sup> Cortical Bone - Powder / Chip
- SureOss<sup>®</sup> Plus Cortical Bone with CA(Calcium Phosphate)- Powder / Chip
- SureOss<sup>®</sup> Collagen Cortical Bone with Collagen - Sponge Block
- SureOss<sup>®</sup> Paste Cortical Bone Matrix - Paste
- SureOss<sup>®</sup>-D Demineralized Cortical Bone - Powder / Chip





SureOss<sup>®</sup> is a Freeze Dried Bone Allograft (FDBA) composed of 100% cortical bone. HansBiomed's Freeze-Dried cortical bone maintains all the growth factors, proteins, and minerals that are related to promoting new bone formation. Since cortical bone is much denser and harder compare to cancellous bone, its mechanical strength provides excellent structural maintenance. SureOss<sup>®</sup> can be rehydrated with patient's blood or saline solution and is provided in a specially designed syringe for user's convenience.





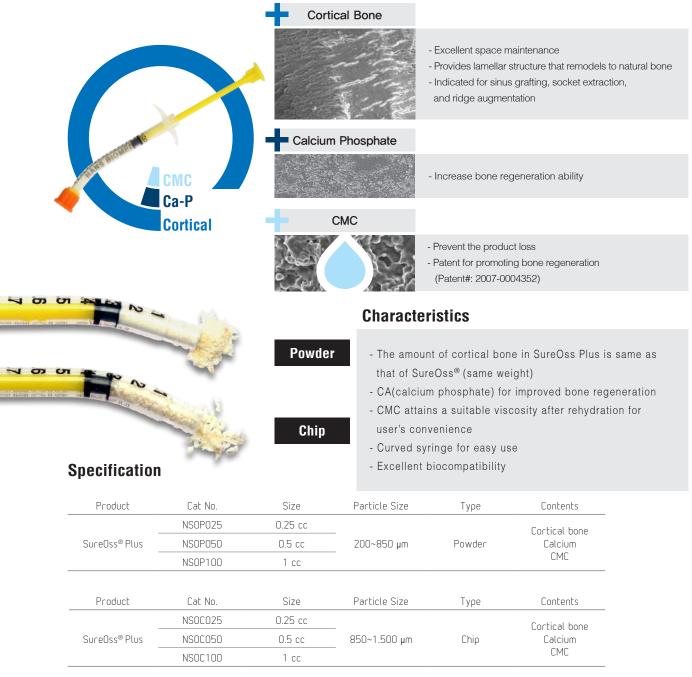
Product	Cat No.	Size	Particle Size	Туре	Contents
	SOP025	0.25 cc			
SureOss®	SOP050	0.5 cc	200~850 µm	Powder	Cortical bone
	SOP100	1 cc			
Product	Cat No.	Size	Particle Size	Туре	Contents
	S0C025	0.25 cc			
SureOss®	S0C050	0.5 cc	850~1.500 µm	Chip	Cortical bone
	SOC100	1 cc			

## SureOss® Plus





SureOss<sup>®</sup> Plus is composed of SureOss<sup>®</sup> (Cortical bone), CA (Calcium Phosphate), and CMC (Carboxymethyl Cellulose) powder. CA is structurally and chemically similar to human bone and is produced as a powder type to maximize its exposure. Osteoclasts resorb CA like host bone and degrade rapidly, which releases the minerals necessary for osteoblast to build new bone. So CA reinforces the osteoconduction and furthers the bone regeneration. When hydrated, CMC powder provides just right viscosity to prevent the product from scattering. SureOss<sup>®</sup> Plus can be rehydrated with patient's blood or saline solution and is provided in a specially designed syringe for user's convenience.

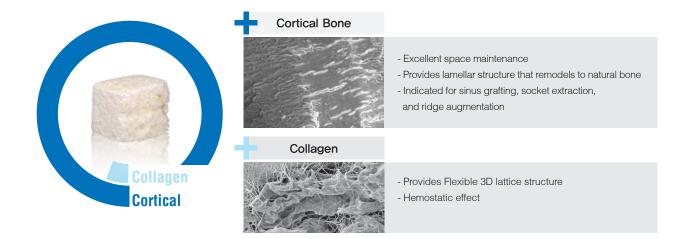


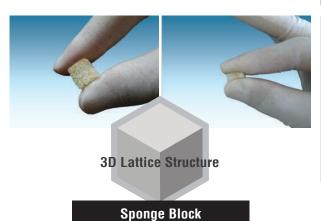
# **Sure**Oss<sup>®</sup> Collagen



#### Cortical Bone with Collagen - Sponge Bone Block

SureOss<sup>®</sup> Collagen is a composed of SureOss<sup>®</sup> powder and collagen, which is engineered and processed into a block type. The bone particles are joined by collagen and form 3D lattice structure which is essential in new bone formation. The osteoconductive ability is enhanced by the SureOss<sup>®</sup> collagen's pore size and its absorbability. SureOss<sup>®</sup> Collagen is absorbable because it has the optimum pore size for the host bone cells to penetrate and to promote new bone growth. SureOss<sup>®</sup> Collagen also has a hemostatic characteristic due to collagen being a hemostatic agent. The spongy bone becomes soft and compressible when rehydrated with saline or blood so it can easily be placed in deficit areas.





### Characteristics

- Easy to handle viscosity that prevents particle loss
- Becomes softer and more compressible with rehydration
- Optimized pore size for host tissue infiltration
- Excellent aesthetic effect
- For a small wound, it can be used alone without membrane

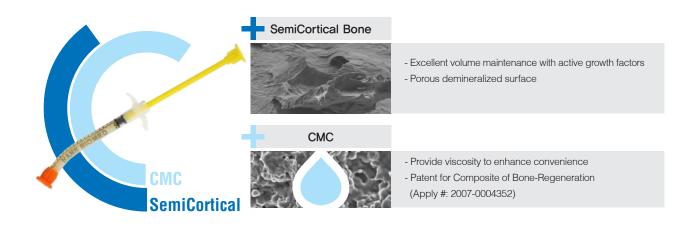
Product	Cat No.	Size	Туре	Contents
C	SOCB05	5 x 5 x 8 mm	Sponge	Cortical bone
SureOss® Collagen	SOCB08	8 x 8 x 8 mm	Bone Block	Collagen

# SureOss<sup>®</sup> Paste

**Cortical Bone Matrix - Paste** 



SureOss® Paste is a bone graft material composed of partially demineralized cortical bone and CMC. Demineralized surface of the semi cortical bone is not compact but rather porous which leads to faster fusion with host bone cells. The semi cortical bone is the next generation of bone graft material that has osteoinductive ability like DBM and durability like cortical bone. CMC provides high viscosity that SureOss® Paste is moldable at the time of implantation.





### **Characteristics**

- Both Osteoconductive and Osteoinductive
- Moldable due to high viscosity attained from CMC contents
- No need of rehydration
- Curved syringe for easy use
- Excellent biocompatibility

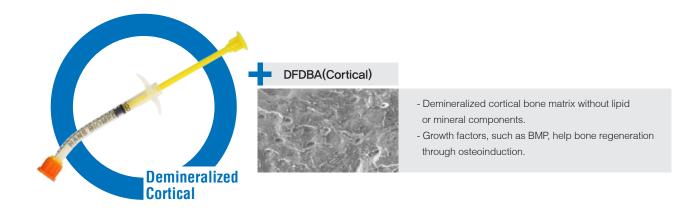
Before demine	eralization (FDBA)	Partially o	lemineralized (SemiC	Cortical Bone)	Complete demineralization (D
High Ost	eoconduction	High Osteoco	nduction 🕂 High	Osteoinduction	High osteoinduction
Sur	reOss®		SureOss® Paste		SureFuse <sup>™</sup>
Specification					
Product	Cat No.	Size	Particle Size	Туре	Contents
_	SOPM030	0.3 cc	_		SemiCortical
SureOss® Paste	SOPM050	0.5 cc	200~850 µm	Paste	bone
	SOPM100	1 cc			CMC

## SureOss<sup>®</sup>-D



Demineralized Cortical Bone - Powder and Chip

SureOss<sup>®</sup>-D is a Demineralized Freeze Dried Bone Allograft (DFDBA) composed of 100% demineralized cortical bone. Demineralization increases the osteoinductive ability because growth factors such as BMP becomes viable and induce mesenchymal cells to differentiate into osteoblast. HansBiomed's lyophilization technology made it possible to increase the shelf life DFDBA such as SureOss<sup>®</sup>-D so it can be stored for a long period of time. SureOss<sup>®</sup>-D can be rehydrated with patient's blood or saline solution and is provided in a specially designed syringe for user's convenience.





### **Characteristics**

- 100% Demineralized Cortical Bone Allograft
- Powerful Osteoinductive ability
- Increased shelf life
- Curved syringe for easy use
- Excellent biocompatibility

Product	Cat No.	Size	Particle Size	Туре	Contents
	DSOP025	0.25 cc			
SureOss®-D	DSOP050	0.5 cc	200~850 µm	Powder	Demineralized Cortical bone
	DSOP100	1 cc			
Product	Cat No.	Size	Particle Size	Туре	Contents
	DSOCO25	0.25 cc			
SureOss®-D	DS0C050	0.5 cc		Chip	Demineralized Cortical bone
	DSOC100	1 cc			

### Implantology, Periodontology, Membrane Various Indication

### Implantological Indications

- Extraction Site
- Ridge Preservation
- Sinus Floor Elevation
- Socket Preservation
- Wall Defect
- Torus
- Fenestration Defect
- Dehiscence Defect

#### **Periodontal Indications**

- Periodontal Augmentation
- Exposed Implant
- Periodontal Defect
- Esthetic Augmentation
- Cysts
- Tumors

#### Membrane

- Gingiva Augmentation
- Membrane for GBR
- Open Membrane Tech
- Gingiva Aug & Open Membrane



**Ridge Preservation** 



SureOss plus



SureOss<sup>®</sup> plus

SureOss®

Sinus Elevation







**Sinus Elevation** 



SureOss®-D

### OsteOss<sup>™</sup> Family

Product	Contents	Туре	Size
OsteOss <sup>74</sup>	Cortical bone Cancellous bone (FDBA)	Powder Chip	0.25 cc 0.5 cc 1 cc
OsteOss <sup>™</sup> Plus	Cortical bone Cancellous bone Calcium(HA) CMC	Powder Chip	0.25 cc 0.5 cc 1 cc
<b>OsteOss</b> <sup>™</sup> Paste	SemiCortical bone Cancellous bone CMC	Paste	0.3 cc 0.5 cc 1 cc

# OsteOss<sup>™</sup> Family

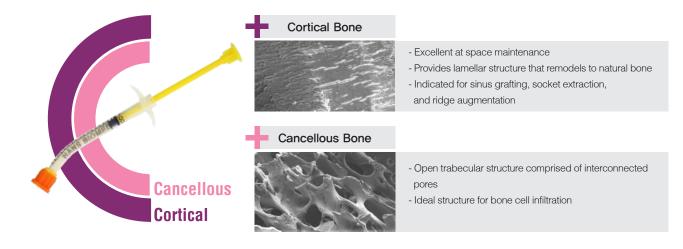
- OsteOss<sup>™</sup> Cortical & Cancellous Bone - Powder / Chip
- OsteOss<sup>™</sup> Plus Cortical & Cancellous Bone with CA(Calcium Phosphate) - Powder / Chip
- OsteOss<sup>™</sup> Paste Cortical Bone Matrix with Cancellous Bone - Paste

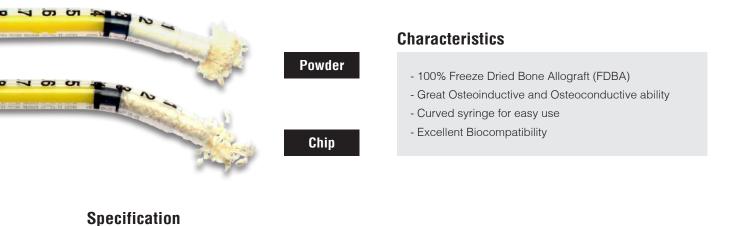
12.6mm x 100





OsteOss<sup>™</sup> is a Freeze Dried Bone Allograft (FDBA) composed of cortical and cancellous bone. Optimized porosity of cancellous bone provides the optimal scaffold for bone tissue to migrate and promote intercellular bone growth. The compactness of the cortical bone is excellent at maintaining structural support as new bone formation occurs. OsteOss<sup>™</sup> can be rehydrated with patient's blood or saline solution and is provided in a specially designed syringe for user's convenience





Product	Cat No.	Size	Particle Size	Туре	Contents
	CCP025	0.25 cc			
OsteOss™	CCP050	0.5 cc		Powder	Cortical bone Cancellous bone
	CCP100	1 cc			
Product	Cat No.	Size	Particle Size	Туре	Contents
	CCCO25	0.25 cc			
OsteOss™	CCC050	0.5 cc		Chip	Cortical bone Cancellous bone
	CCC100	1 cc			20112211003 0011

## OsteOss<sup>™</sup> Plus

Product

OsteOss™ Plus

Cat No.

N00C025

N00C050

N00C100

Size

0.25 cc

0.5 cc

1 сс

Particle Size

850~1,500 µm

Туре

Chip

Contents

Cortical bone Cancellous bone

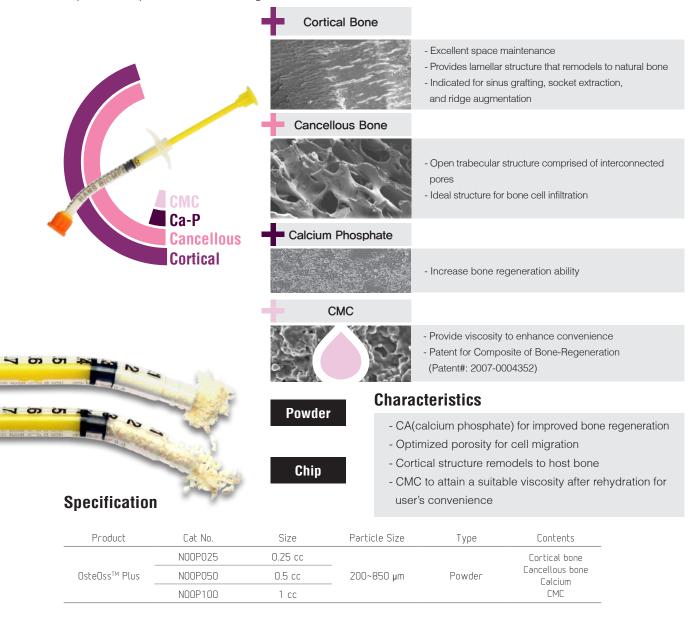
Calcium

CMC

#### Cortical & Cancellous Bone with CA - Powder and Chip



OsteOss<sup>™</sup> Plus is composed of cortical bone, cancellous bone, CA (Calcium Phosphate), and CMC (Carboxymethyl Cellulose) powder. CA is structurally and chemically similar to human bone and is produced as a powder type to maximize its exposure. Osteoclasts resorb CA like host bone and degrade rapidly, which releases the minerals for osteoblast to build new bone. Porosity of cancellous bone provides the optimal scaffold for bone cells to settle, and hardness of cortical bone supports the mechanical structure. When hydrated, CMC powder provides just right viscosity to prevent the product from scattering.

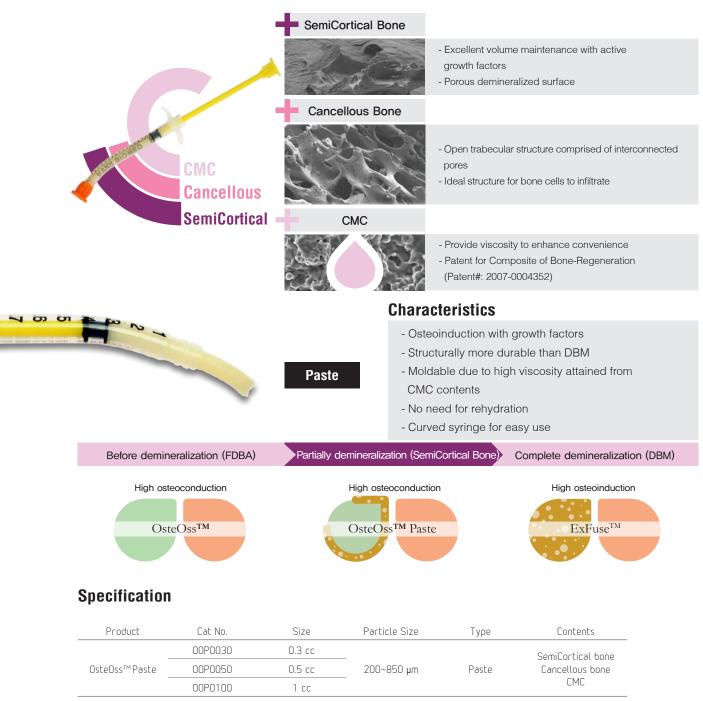


## **OsteOss**<sup>™</sup> Paste



Cortical Bone Matrix with Cancellous Bone - Paste

OsteOss<sup>™</sup> Paste is bone graft material composed of partially demineralized cortical bone, cancellous bone and CMC. Demineralized surface of the semi cortical bone is not compact but rather porous. Also the porosity of cancellous bone provide optimal scaffold for bone cell infiltration. Being partially demineralized, growth factors such as bmp promote mesenchymal cell amplification and differentiation. CMC provides high viscosity so OsteOss<sup>™</sup> Paste is moldable at the time of use.



### Implantology, Periodontology, Membrane Various Indication

### Implantological Indications

- Extraction Site
- Ridge Preservation
- Sinus Floor Elevation
- Socket Preservation
- Wall Defect
- Torus
- Fenestration Defect
- Dehiscence Defect

#### **Periodontal Indications**

- Periodontal Augmentation
- Exposed Implant
- Periodontal Defect
- Esthetic Augmentation
- Cysts
- Tumors

#### Membrane

- Gingiva Augmentation
- Membrane for GBR
- Open Membrane Tech
- Gingiva Aug & Open Membrane







OsteOss™

Torus







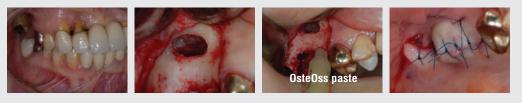
OsteOss™

**Exposed Implant** 



OsteOss™ Plus

#### Sinus Floor Elevation



OsteOss™ Paste

### **DBM Products**

Product	Contents	Туре	Size
SureFuse <sup>®</sup> II	DFDBA CMC	Gel Putty	0.3 cc 0.5 cc 1 cc
	DFDBA Cancellous bone CMC	Gel Putty	0.3 cc 0.5 cc 1 cc
BellaFuse <sup>™</sup>	<b>DBM Flex</b> DFDBA Gelatin		10 x 20 x 2.5 mm 15 x 40 x 2.5 mm
BellaPine	<b>DBM+Cortical Flex</b> DFDBA Cortical bone Gelatin	Flexible Sheet	15 x 40 x 2.5 mm 20 x 20 x 2.5 mm 20 x 40 x 2.5 mm

### **FDBA Products**

Product	Contents	Туре	Size
	Cancellous	Powder/ Chip	0.25 cc 0.5 cc 1 cc
	DFDBA Cortial bone	Powder/ Chip	0.25 cc 0.5 cc 1 cc
Genesis™	Cancellous bone		10 x 10 x 5 mm 10 x 10 x 10 mm 10 x 20 x 10 mm
Gene Genesis"	CorticoCancellous bone	Block	6 x 6 x 10 mm 6 x 12 x 12 mm 6 x 12 x 20 mm 7 x 7 x 10 mm

# **DBM Products**

- SureFuse<sup>®</sup> Demineralized Bone Matrix - Gel / Putty

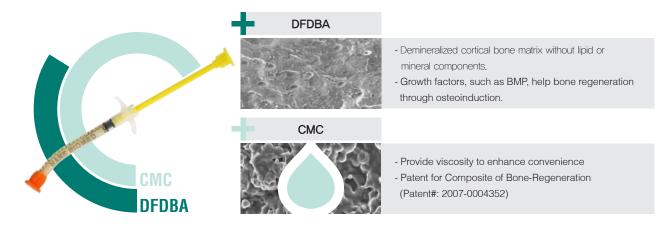
- ExFuse<sup>TM</sup> Demineralized Bone Matrix with Cancellous Bone - Gel / Putty

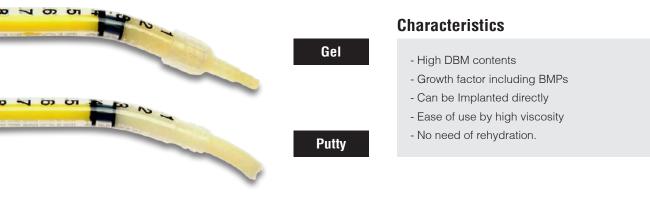
- BellaFuse<sup>TM</sup> Demineralized Bone Matrix - Flexible Sheet 500 µm





SureFuse<sup>®</sup> is a bone graft substitute composed of Demineralized Bone Matrix and a CarboxyMethyl Cellulose (CMC) carrier. It is available in Gel or Putty type and is ready for implantation without rehydration. DBM content is a very osteoinductive because it has the natural growth factors that promote new bone formation by differentiating mesenchymal cells to osteoblasts. Both gel and putty is malleable and viscous so it can fit into any shape of bone defect.





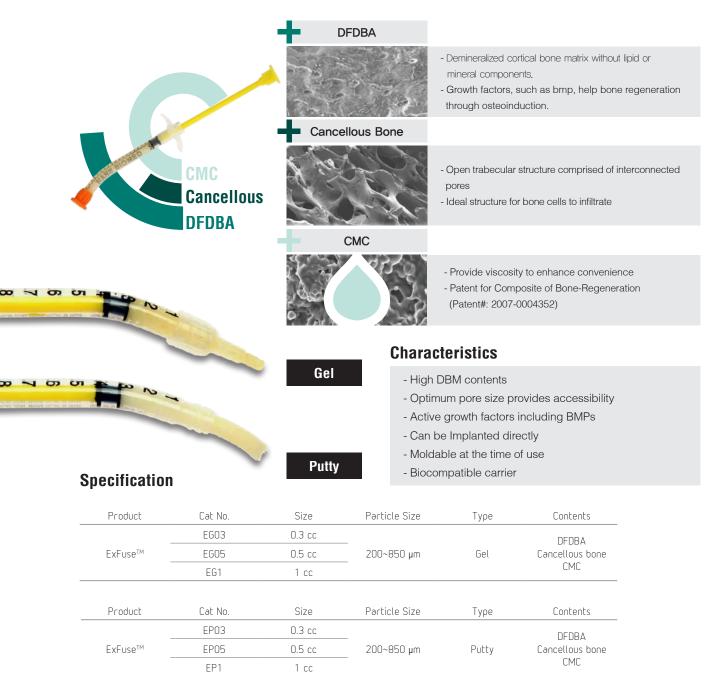
Product	Cat No.	Size	Particle Size	Туре	Contents
	SG03	0.3 cc			
SureFuse®	SG05	0.5 cc	 200~850 μm		DFDBA CMC
	SG1	1 cc	_		erie
Product	Cat No.	Size	Particle Size	Туре	Contents
	SP03	0.3 cc			
SureFuse®	SP05	0.5 cc	 200~850 μm	Putty	DFDBA CMC
-	SP1	1 cc			CMC

## **ExFuse**<sup>m</sup> II



### Demineralized Bone Matrix with Cancellous Bone - Gel and Putty

ExFuse<sup>™</sup> Gel and Putty is a bone graft substitute composed of Demineralized Bone Matrix and CarboxyMethyl Cellulose (CMC) carrier with additional cancellous bone powder. It is available in Gel or Putty type and is ready for implantation without rehydration. Cancellous bone has the optimum interconnected pores for cellular attachment and invasion that stimulates bone and vascular growth. The natural growth factors in DFDBA promote new bone formation by cell amplification and differentiation. Both gel and putty are malleable and viscous so it can fit into any shape of bone defect.

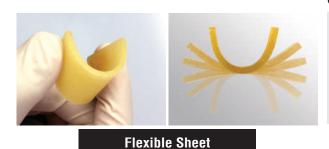


# BellaFuse



BellaFuse<sup>™</sup> Sheet is a flexible bone sheet composed of DFDBA and gelatin. Gelatin is a very biocompatible agent that maintains the shape and enhances flexibility of BellaFuse. The gelatin content gets slowly absorbed by the host tissue which provides a durable scaffold that leaves a higher DFDBA content over 50%. BellaFuse is irrigation resistant and easily cut into desirable shape for multiple indications.





### Characteristics

- High DFDBA contents over 50%
- Active growth factors including BMPs
- Ready for direct implantation
- Irrigation resistant
- Excellent biocompatibility

Product	Cat No.	Size	Туре	Contents
_	DBF12	10 x 20 x 2.5 mm		
BellaFuse™	DBF14	10 x 40 x 2.5 mm	Flexible	DFDBA
DBM Flex	DBF22	20 x 20 x 2.5 mm	Sheet	Gelatin
	DBF24	20 x 40 x 2.5 mm		
Product	Cat No.	Size	Туре	Contents
	CDBF12	10 x 20 x 2.5 mm		
BellaFuse™	CDBF14	10 x 40 x 2.5 mm	Flexible	DFDBA
Cortical + DBM Flex	CDBF22	20 x 20 x 2.5 mm	Sheet Cortical bo Gelatin	
	CDBE24	20 x 40 x 2.5 mm		

### **FDBA Products**

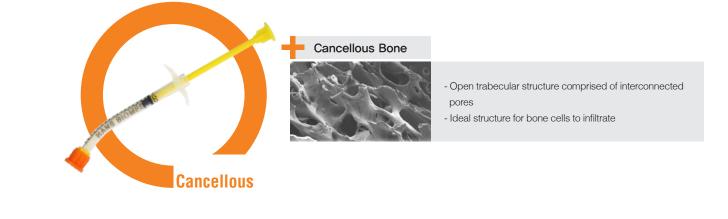
- CANOSS<sup>™</sup> Cancellous Bone - Powder / Chip
- INGROSS<sup>™</sup> Cortical & DFDBA - Powder / Chip
- Genesis<sup>™</sup> Cancellous & CorticoCancellous Bone - Block

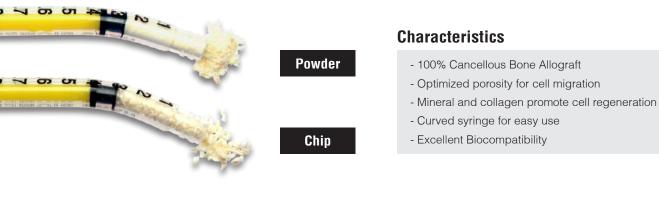
100 µm

### **CANOSS**<sup>TM</sup> Cancellous Bone - Powder and Chip



CANOSS<sup>™</sup> is a Freeze Dried Bone Allograft (FDBA) composed of 100% cancellous bone. 100% Freeze-Dried cancellous bone maintains all the growth factors, proteins, and minerals that are related to promoting new bone formation. Interconnected pore structure of cancellous bone allows cells to migrate into the graft and encourages cellular ingrowth. Minerals and collagens directly promote bone remodeling and revascularization. CANOSS<sup>™</sup> can be rehydrated with patient's blood or saline solution and is provided in a specially designed syringe for user's convenience.



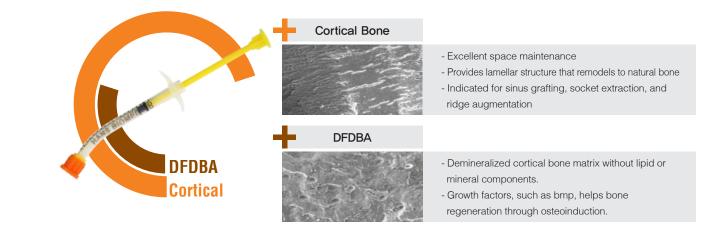


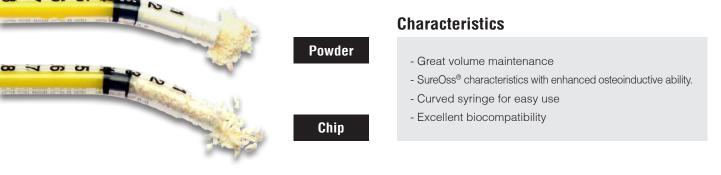
Product	Cat No.	Size	Particle Size	Туре	Contents
	CAP025	0.25 cc			
CANOSS™	CAP050	0.5 cc	200~850 µm	Powder	Cancellous bone
	CAP100	1 cc			
Product	Cat No.	Size	Particle Size	Туре	Contents
	CACO25	0.25 cc			
CANOSS™	CACO5O	0.5 cc		Chip	Cancellous bone
	CAC100	1 cc			





INGROSS<sup>™</sup> is composed mainly of cortical bone with DFDBA. Since 100% freeze dried cortical bone is the main component, INGROSS<sup>™</sup> is osteoconductive like SureOss<sup>®</sup> that provides a strong structural support. INGROSS<sup>™</sup> also has a great osteoinductive ability because growth factors in DFDBA stimulate new bone formation. INGROSS<sup>™</sup> can be rehydrated with patient's blood or saline solution and is provided in a specially designed syringe for user's convenience.



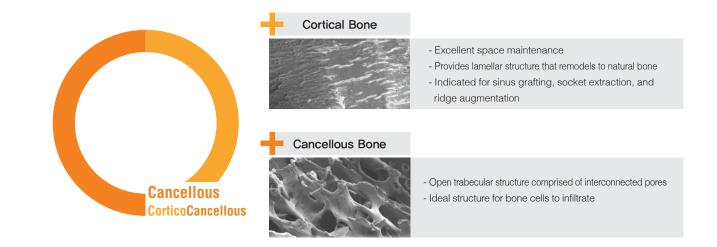


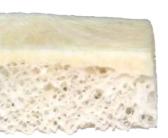
Product	Cat No.	Size	Particle Size	Туре	Contents
	CDP025	0.25 cc		Powder	Cortical bone DFDBA
INGROSS™	CDP050	0.5 cc			
	CDP100	1 cc			
Product	Cat No.	Size	Particle Size	Туре	Contents
	CDCO25	0.25 cc		Chip	Cortical bone DEDBA
INGROSS™	CDC050	0.5 cc			
	CDC100	1 cc			DI DDA





Genesis<sup>™</sup> is a Freeze Dried Bone Allograft (FDBA) bone block. There are two types of Genesis<sup>™</sup>: corticocancellous, and cancellous. 3D lattice structure of Genesis delivers great volume maintenance and excellent osteoconductive property. The interconnected pores of cancellous bone provides the optimal scaffold for bone tissue to migrate and promote intercellular bone growth. As 100% CorticoCancellous allograft, Genesis<sup>™</sup> is durable and compressible, that can easily be applied to large defect directly.







### Characteristics

- 100% Freeze Dried Bone Allograft bone block
- Optimal scaffold with 3D lattice structure
- Durable osteoconductive structure
- Ready for large defect area implantation
- Excellent Biocompatibility



Product	Cat No.	Size	Туре	Contents
_	CAB05	10 x 10 x 5 mm		
Genesis™	CAB10	10 x 10 x 10 mm	Block	Cancellous bone
_	CAB20	10 x 10 x 20 mm		
Product	Cat No.	Size	Туре	Contents
	CCB06	6 x 6 x 10 mm		
с : тм	CCB12	6 x 12 x 12 mm		CorticoCancellous
Genesis™ –	CCB20	6 x 12 x 20 mm	Block	bone
-	CCB17	7 x 7 x 10 mm		

# ADM Product

- SureDerm<sup>®</sup> Acellular Dermal Matrix





SureDerm<sup>®</sup> is a sterile, Acellular Dermal Matrix (ADM) derived from human skin tissue. After removal of the epidermis layer, the cells in the dermis layer are eliminated to avoid any immune rejection. The collagen and elastin architecture of the dermis layer is maintained so it provides a structural support for skin defects in cases like gingiva reconstruction. The Acellular Dermal Matrix becomes patient's own tissue by cell migration and blood vessel regeneration.



### **Characteristics**

- Applicable without skin test
- Ready for implantation directly
- No discomfort after engraftment
- Becomes patient's own skin
- Elastic, Durable and Biocompatible

Product	Cat No.	Size	Thickness	Application
SureDerm®	G102002	10 x 20 mm		Membrane Gingiva
	G102004	10 x 40 mm	- 0.25~0.59 mm -	
(10 Series)	G102104	20 x 20 mm		
	G102008	20 x 40 mm		
	G202002	10 x 20 mm	- 0.60~0.99 mm -	Membrane Gingiva
SureDerm®	G202004	10 x 40 mm		
(20 Series)	G202104	20 x 20 mm		
	G202008	20 x 40 mm		
	G302002	10 x 20 mm		Membrane
SureDerm®	G302004	10 x 40 mm		
(30 Series)	G302104	20 x 20 mm	- 1.00~1.39 mm	Gingiva Augmentation
	G302008	20 x 40 mm	_	5

# Easier, Safer Easy Mixing and Handling

### Injectable Curved Syringe Type



Injecting product onto the treatment site after rehydration in patient blood or saline.



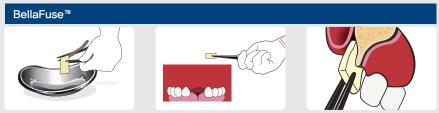
Injecting products without rehydration, Shaping the Putty type product into a desired form before implantation,

### Space Maintanance Block Type



manipulating of shape into desired form and size, then injecting in defect area after rehydration in patient blood or saline.

#### **Flexible Sheet Type**

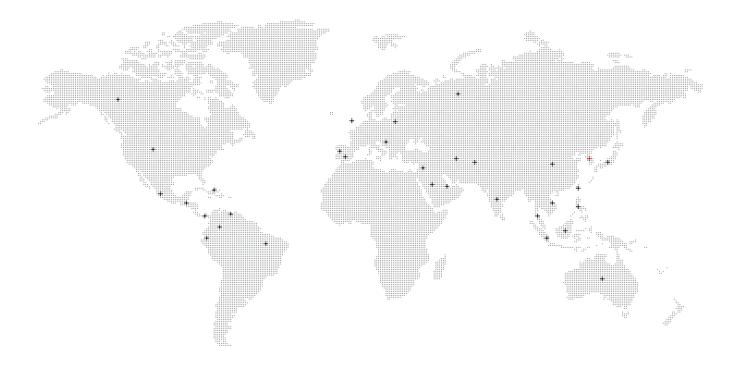


implant in the treatment site with desired shape with rehydration.

### HansBiomed Corp. Allograft Tissue

	Product	Composition	Commercially available forms	Characteristics
	SureOss®	Cortical bone	Powder Chip	
S u r e O	SureOss® Plus	Cortical bone Calcium bone CMC	Powder Chip	
s s F	SureOss® Collagen	Cortical bone Collagen	Block	
a m i J y	SureOss® Paste	Cortical bone CMC	Paste	
	SureOss <sup>®</sup> -D	Demineralized Cortical bone	Powder Chip	
O s t e	OsteOss"	Cortical bone Cancellous bone	Powder Chip	
0 s F	<b>OsteOss</b> ™ Plus	Cortical bone Cancellous bone Calcium CMC	Powder Chip	Osteoconduction
a m i y	<b>OsteOss</b> <sup>™</sup> Paste	Cortical bone Cancellous bone CMC	Paste	Biocompatibility Osteoinduction
D B M	SureFuse <sup>®</sup> II	DFDBA CMC	Gel Putty	
P r o d	ExFuse <sup>™</sup> II	DFDBA Cancellous bone CMC	Gel Putty	
U C t S	BellaFuse <sup>™</sup>	DFDBA Gelatin	Sheet	
D F D B		Cancellous bone	Powder Chip	
A		Cortical bone DFDBA	Powder Chip	
P o d u c t s		Cancellous bone CorticoCancellous bone	Block	
A D M	SureDerm <sup>®</sup>	Acellular Dermal Matrix	Sheet	Biocompatibility

# Distributors around the globe **Partner with Us**



### QUICK RESPONSE FOR YOUR MARKET NEEDS

HansBiomed Corp., as the first tissue bank listed in KOSDAQ, develops and produces a variety of human tissue allograft products. We have received American Association of Tissue Banks (AATB) accreditation and US FDA 510(k) clearance to ensure the safety and quality of our products, and to ultimately provide you with only the safe and high quality allograft products.

Please do not miss this opportunity to meet best products and services by becoming our partner.

Should you have any questions or inquiries, please do not hesitate to contact us.

We will be more than happy to respond to any of your questions.



www.HansBiomed.com

www.HansGBR.com

www.BellaGel.net

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