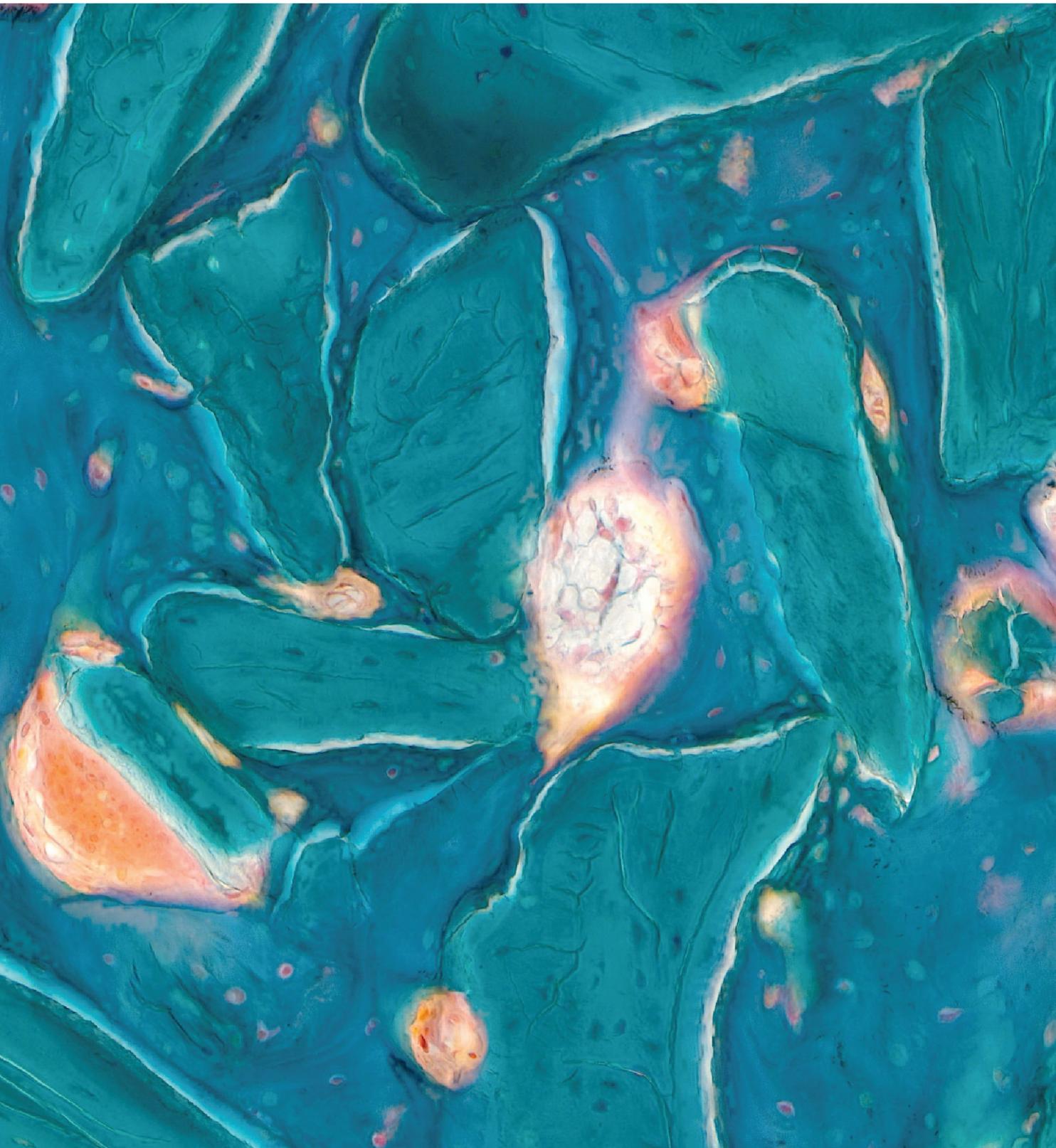
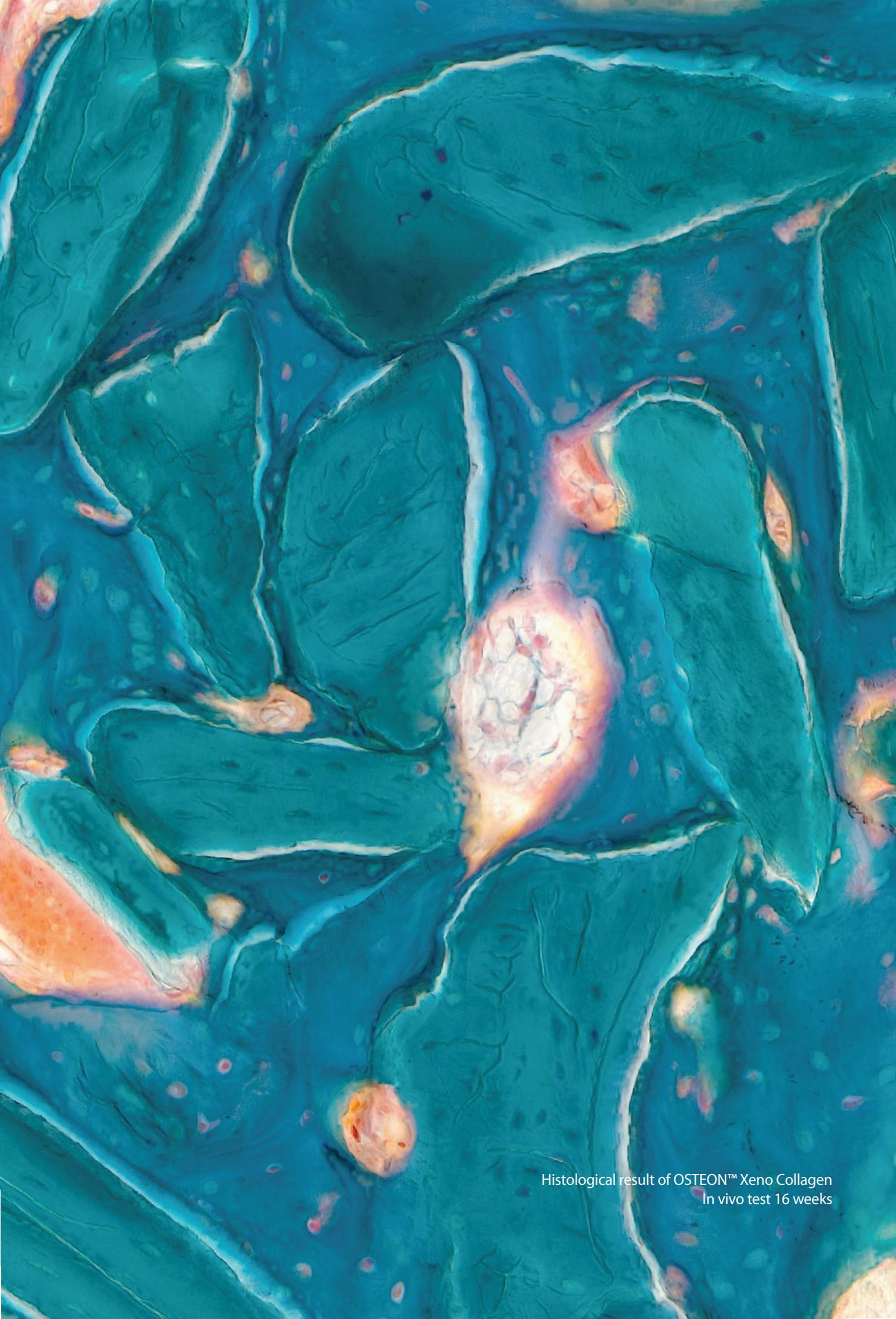


**Dentium**

# **Regeneration**

**Bone Grafting & Soft Tissue Management**





Histological result of OSTEON™ Xeno Collagen  
In vivo test 16 weeks

# Dentium

## Regeneration Products Information

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# Bone Graft Materials

OSTEON™ Xeno: microstructure

# OSTEON™ Xeno

## Applications

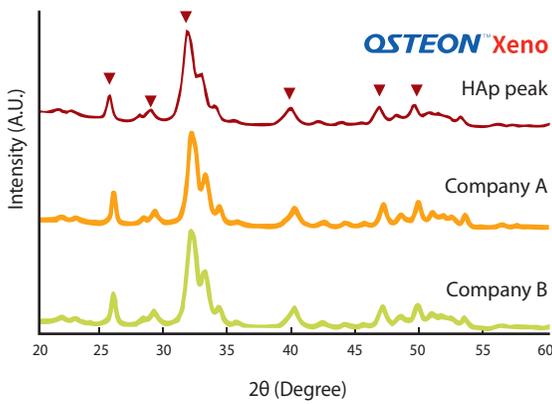
- Alveolar ridge preservation
- Extraction site & Osteotomy
- Horizontal & Vertical bone augmentation
- Periodontal defect

## Characteristics

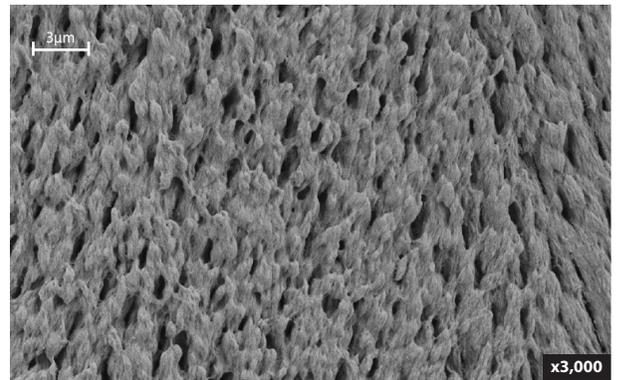
- Natural bovine bone substitute similar to human bone
- Highly interconnected macro/micro-pores
- Complete removal of organic substances
- Easy handling and excellent wettability



## XRD spectra

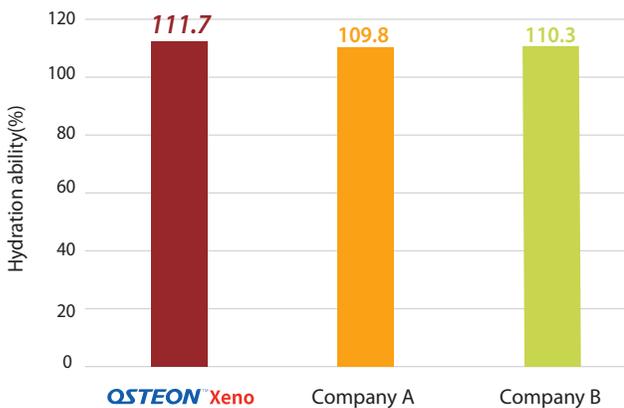


## Microstructure



Micropore

## Hydration ability



# OSTEON™ 3

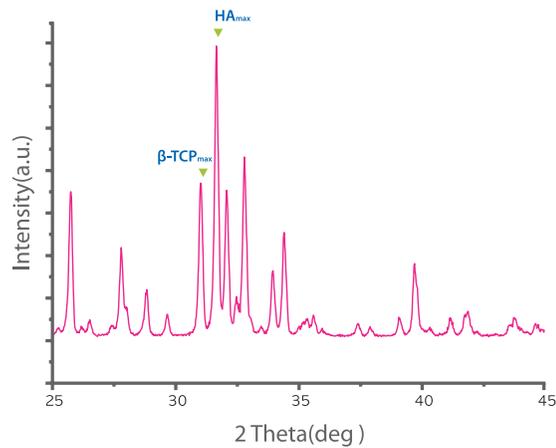
## Applications

- Alveolar ridge augmentation
- Extraction site & Osteotomy
- Horizontal & Vertical bone augmentation
- Periodontal defect

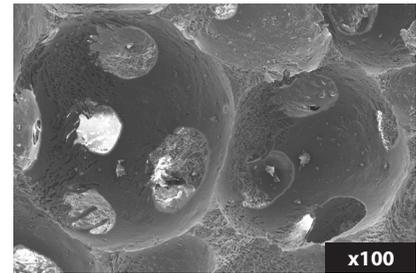


## Composition

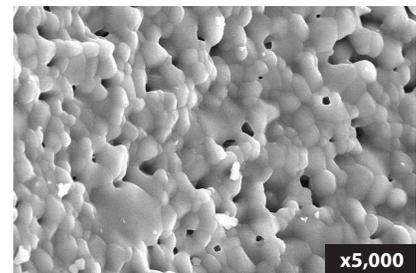
OSTEON™ 3 is a synthetic bone graft material composed of 60% HA and 40% beta-TCP



## Microstructure



Macropore



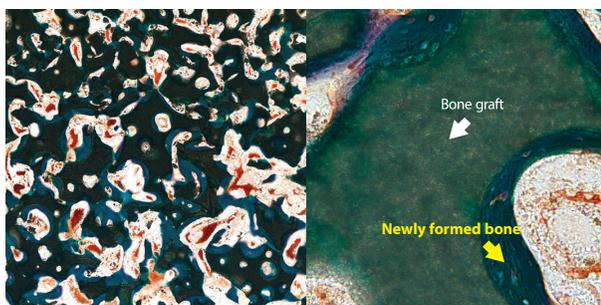
Micropore

## Characteristics

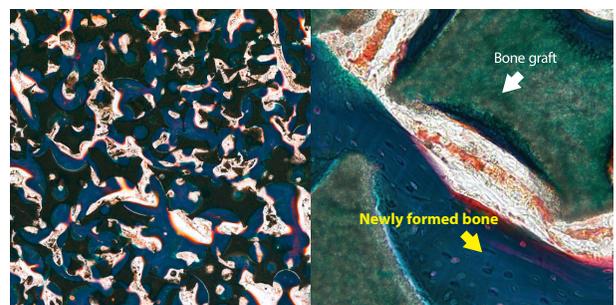
- Easy handling and excellent wettability
- Osteoconductive synthetic bone graft
- Wider surface area and higher porosity than OSTEON I and II (Highly inter-connected structure between macro/micro pores)

## Animal Test

Rabbit calvarial defect model



4 weeks



8 weeks

# OSTEON™ 3 Collagen



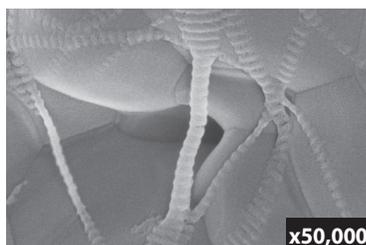
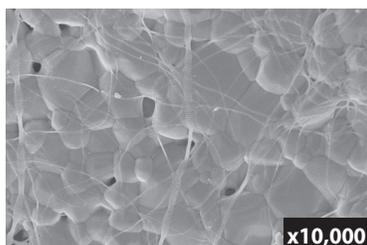
## Applications

- Simple grafting
- Alveolar ridge augmentation
- Extraction socket management
- Sinus lift (crestal approach)

## Characteristics

- Bone void filler composed of OSTEON 3 and type I collagen
- Easy to mold and apply to various defects
- Easy handling and reduced surgical chair time

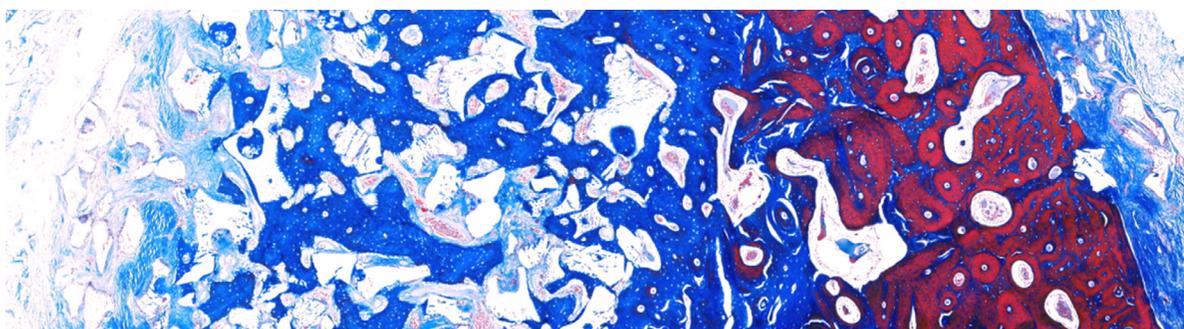
## Microstructure



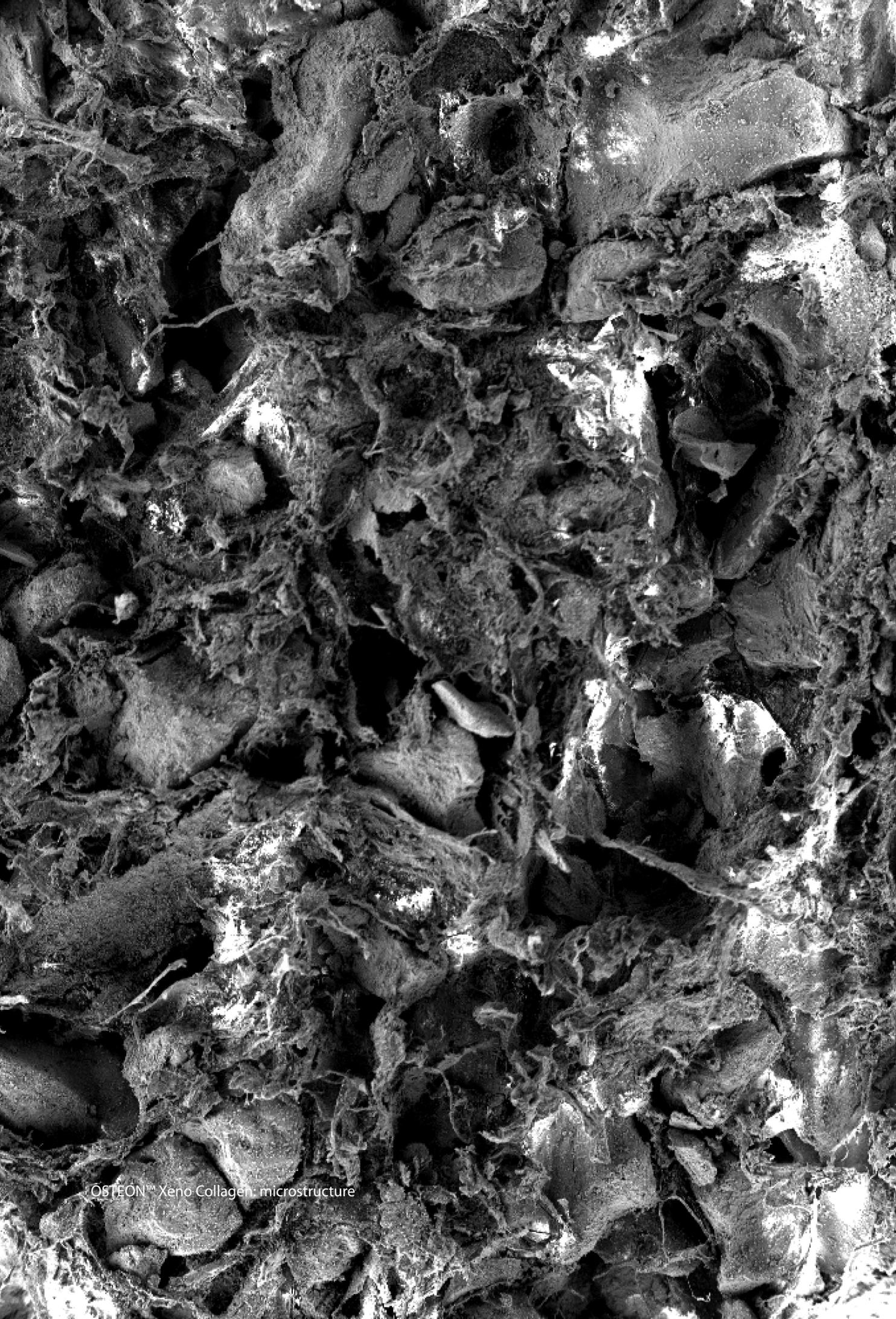
## Easy handling



## Animal Test

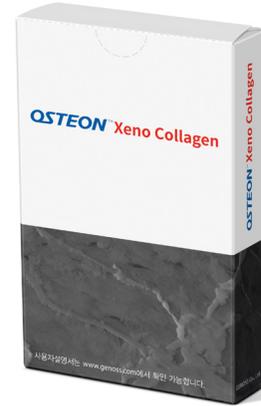


Beagle mandible (lateral onlay graft model), 8 weeks



OSTEON™ Xeno Collagen: microstructure

# OSTEON™ Xeno Collagen



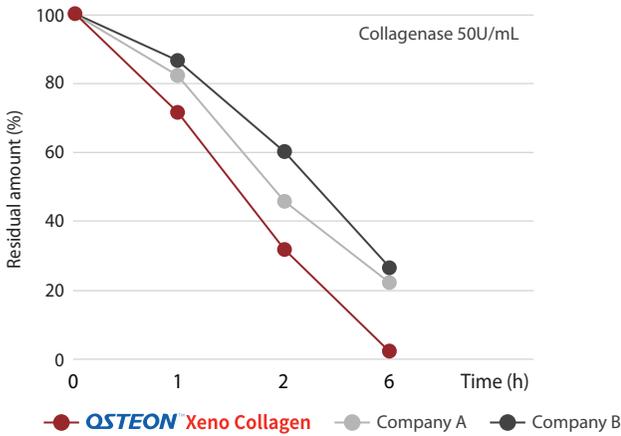
## Applications

- Guided bone regeneration
- Contour augmentation
- Alveolar ridge preservation
- Sinus lift

## Characteristics

- Bone void filler composed of OSTEON Xeno and Type I Collagen
- Easy handling and reduced surgical chair time
- Collagen provides treatment convenience and is absorbed within 1~2 weeks.

## Collagen Degradation Rate

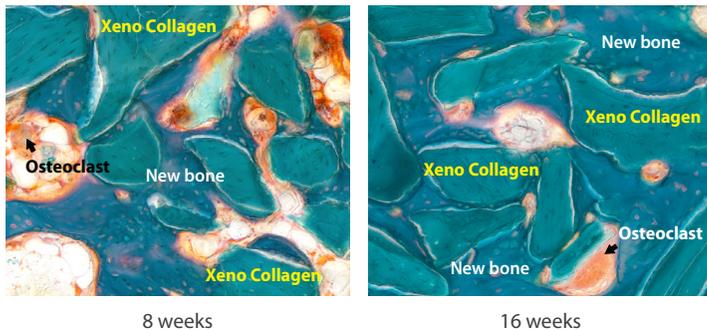


## Easy handling

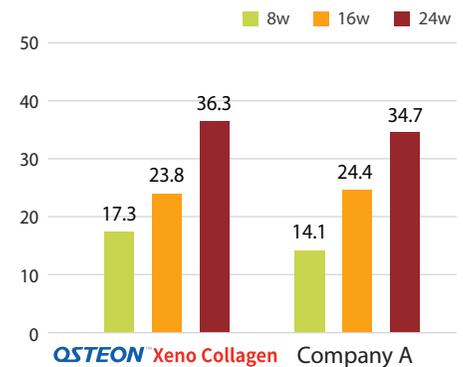


## Animal Test

Rabbit calvarial defect model



## New Bone Volume (%)



# Order Information

OSTEON™ Xeno	Type	REF	Size (mm)	Weight (g)
	Vial	GXS015 GXS025 GXS050 GXS100	0.2~1.0 Small	0.5/0.25 0.5/1.0
GXL015 GXL025 GXL050 GXL100		1.0~2.0 Large	0.15/0.25 0.5/1.0	

OSTEON™ 3	Type	REF	Size (mm)	Volume (cc)
	Vial	3G0205010 3G0205025 3G0205050 3G0205100	0.2~0.5	0.1/0.25 0.5/1.0
		3G0510010 3G0510025 3G0510050 3G0510100	0.5~1.0	0.1/0.25 0.5/1.0
		3G1020010 3G1020025 3G1020050 3G1020100	1.0~2.0	0.1/0.25 0.5/1.0
	Sinus (Syringe)	3G0510050S 3G1020050S	0.5~1.0 1.0~2.0	0.5
Lifting (Syringe)	3G0205025L 3G0510025L	0.2~0.5 0.5~1.0	0.25	

# Order Information

<b>OSTEON™ 3 Collagen</b>	Type	REF	Size (mm)	Particle size (mm)	
	Cylinder	ND3CC0605 ND3CC0610	Ø6.0 x 5.0 Ø6.0 x 10.0	0.5~1.0	
<b>OSTEON™ Xeno Collagen</b>	Type	REF	Diameter (mm)	Height (mm)	
	Cylinder	XC0605 XC0610	6.0	5.0 10.0	
<b>OSTEON™ Xeno Collagen</b>	Type	REF	Width (mm)	Length (mm)	Height (mm)
	Block	XC0810	8.0	8.0	10.0

The image displays a cross-section of a collagen membrane, characterized by a dense, interconnected network of collagen fibers. The fibers are arranged in a complex, three-dimensional structure, with some fibers appearing as thick, bundled strands and others as thinner, more delicate threads. The overall appearance is that of a porous, fibrous material. The text "Membrane Materials" is overlaid in white on the left side of the image.

# Membrane Materials

Collagen Membrane 2: microstructure

# Collagen Membrane 2



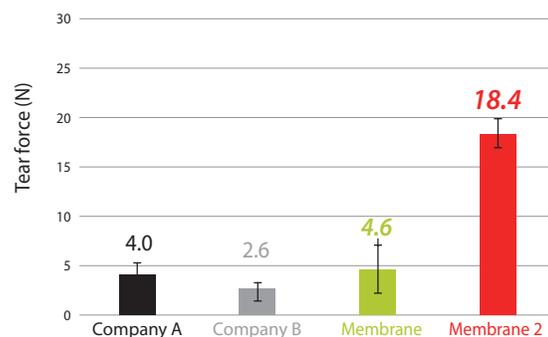
## Applications

- Guided bone regeneration
- Ridge augmentation
- Extraction sites (implant preparation / placement)
- Burrito technique (Pin application)

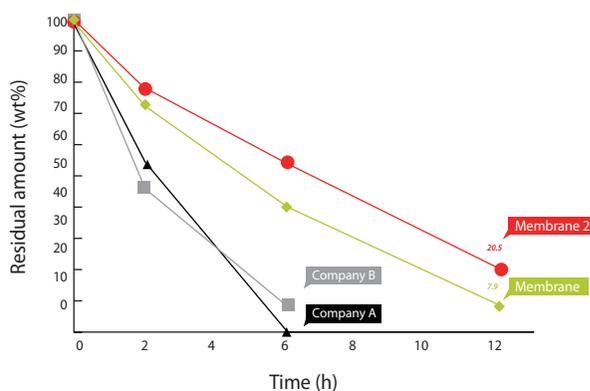
## Characteristics

- Highly pure Type I Collagen
- Resorbable barrier membrane lasting for 4 months
- Multi-layered structure
- Easy handling (Soft type)

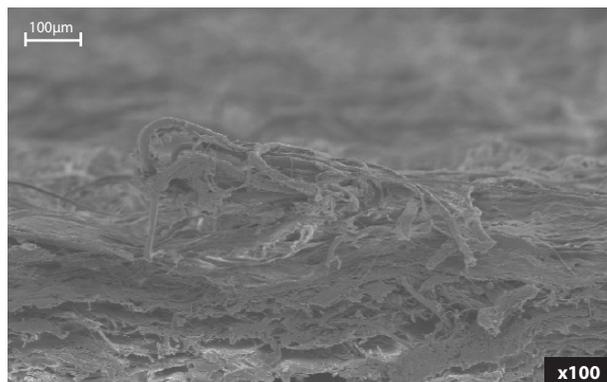
## Tear force



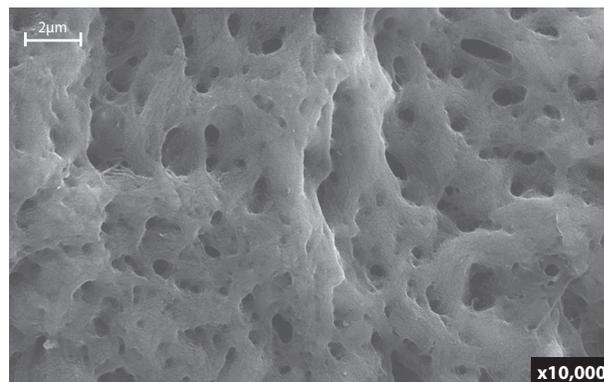
## In Vitro Degradation



## Microstructure



Cross section



Surface

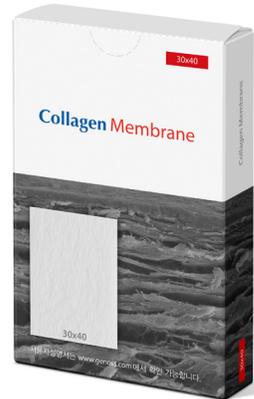
# Collagen Membrane

## Applications

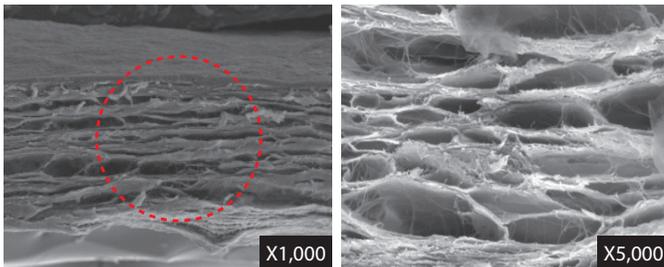
- Guided bone regeneration
- Alveolar ridge augmentation
- Extraction sites (Implant preparation / Placement)

## Characteristics

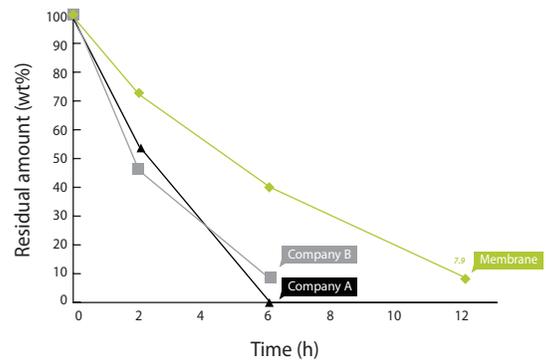
- Easy handling (Hard type)
- Both sides usable
- Barrier function lasting for 6 months
- Highly pure Type I Collagen



## Microstructure



## In Vitro Degradation



## Animal Test



Rabbit calvarial defect model,  
6 weeks

12 weeks

# Collagen Membrane-P

## Applications

- Guided bone regeneration
- Alveolar ridge augmentation
- Extraction sites (Implant preparation / Placement)

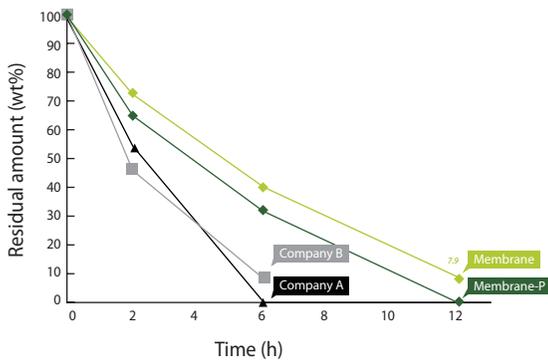


## Characteristics

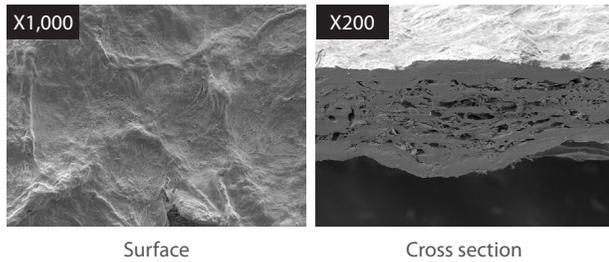
- Easy handling
- Both sides usable
- Barrier function lasting for 4 months
- Highly pure Type I Collagen



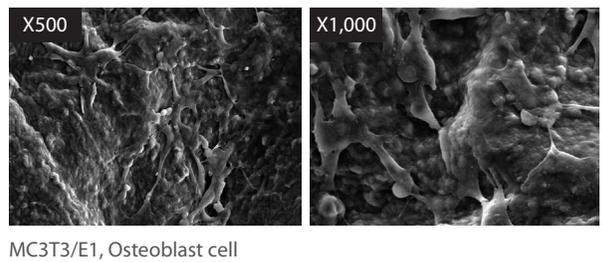
## In Vitro Degradation

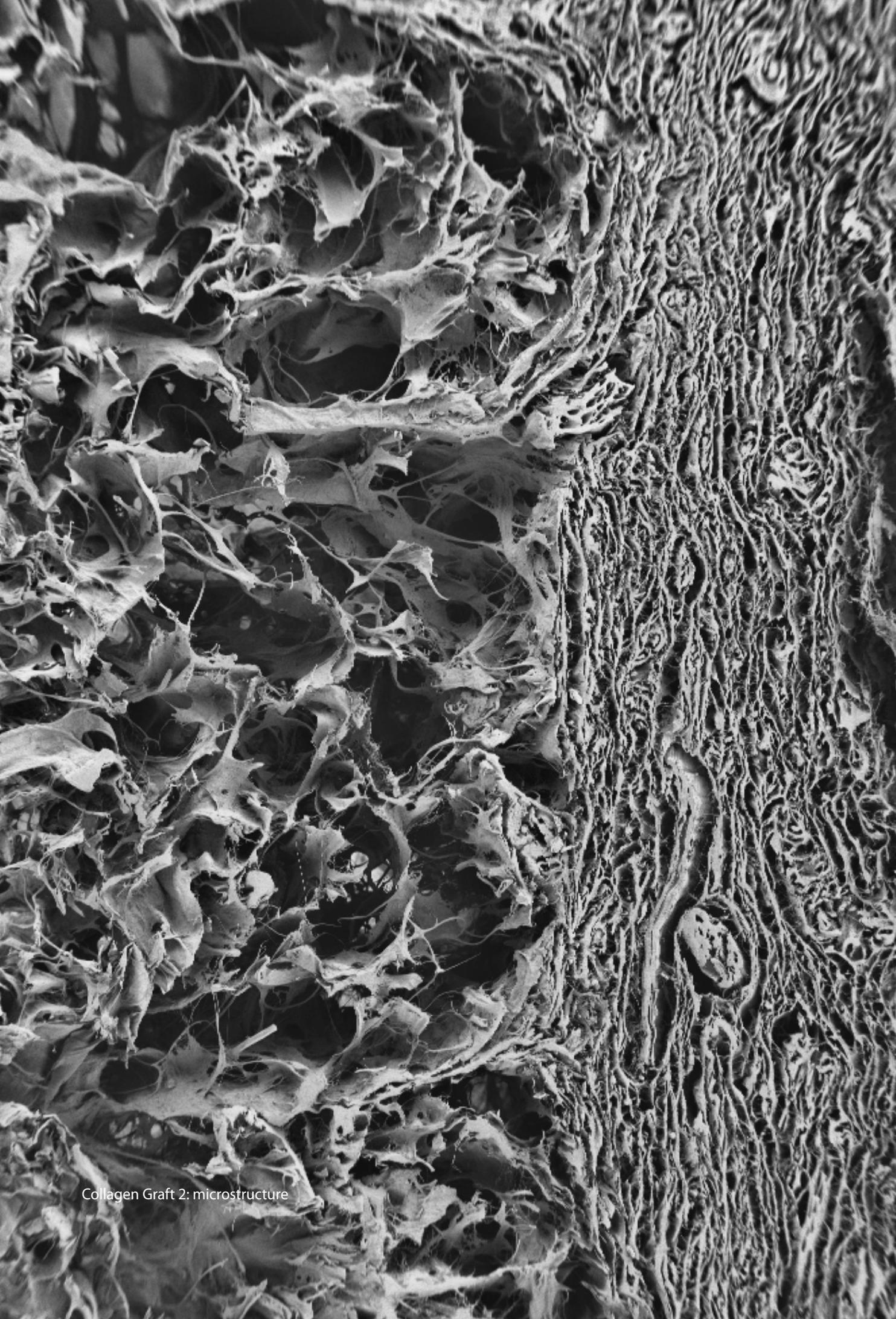


## Microstructure



## Cell Adhesion





Collagen Graft 2: microstructure

# Collagen Graft 2

## Applications

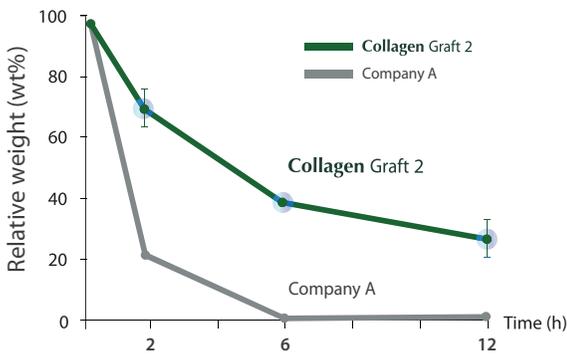
- Ridge Preservation (Open healing)
- Keratinized tissue augmentation
- Recovery of keratinized mucosa
- FGG alternative
- Root coverage

## Characteristics

- Highly pure Type I Collagen
- Bilayer structure: Dense & porous layer
- Fast soft tissue healing by epithelization



## In Vitro Degradation



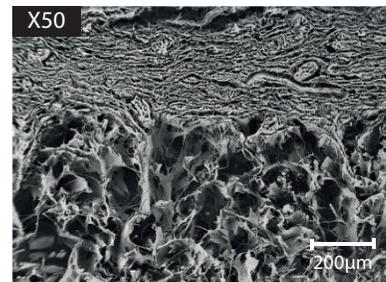
## Animal Test

Dog mandible model, 16 weeks

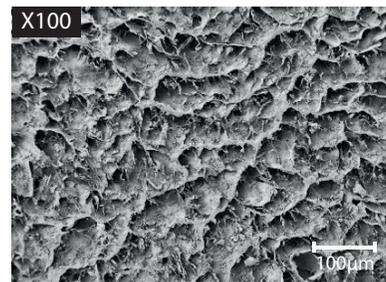


Company A DBBM  
+ Dentium Collagen Graft 2

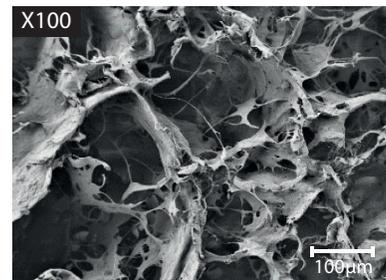
## Microstructure



Cross section



Dense Layer

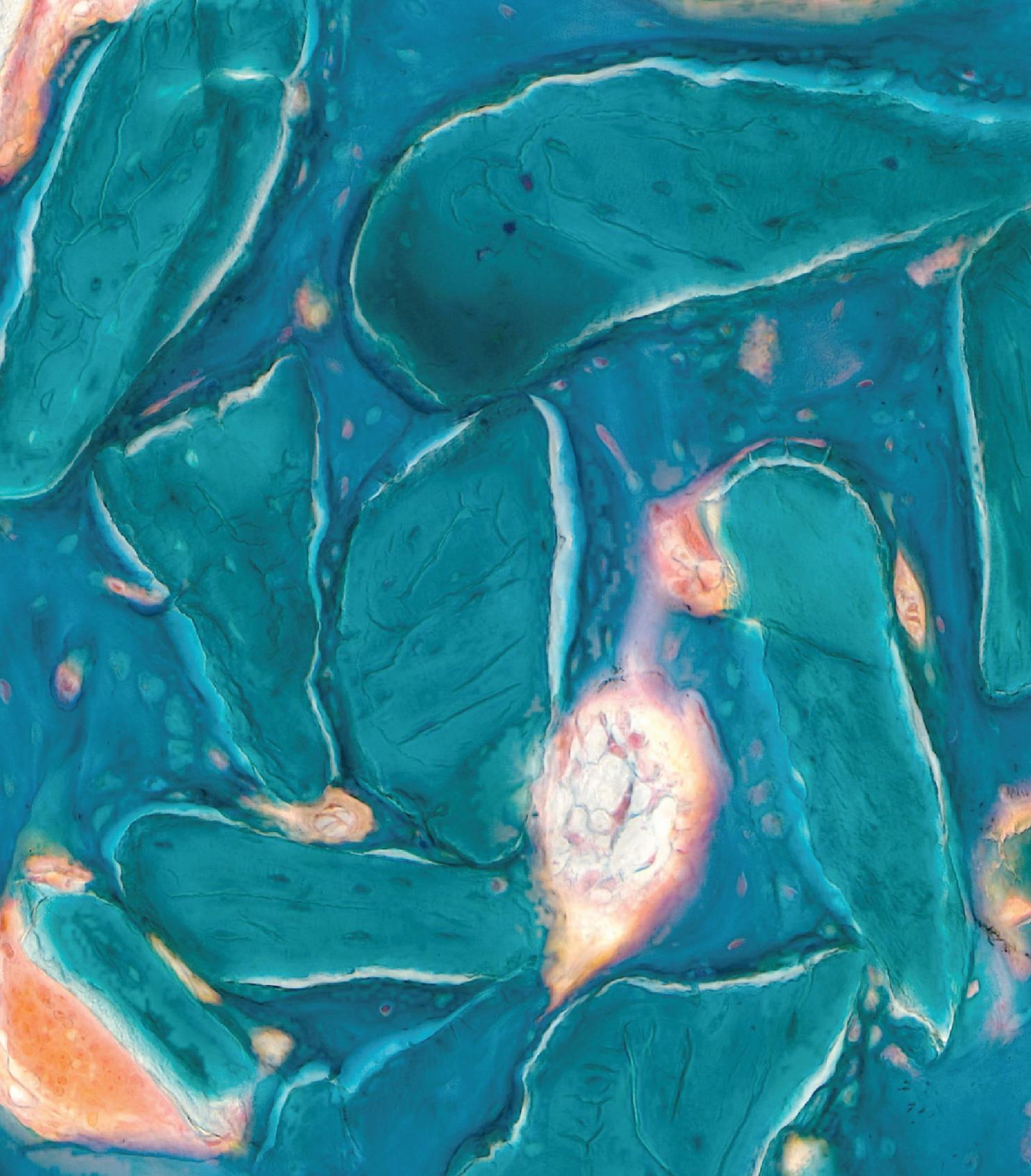


Porous Layer

# Order Information

	Type	REF	Size (mm)	Thickness (mm)
<b>Collagen Membrane 2</b>	Square	CM1020S	10 x 20	0.3
		CM1520S	15 x 20	
		CM1530S	15 x 30	
		CM2030S	20 x 30	
		CM3040S	30 x 40	
<b>Collagen Membrane</b>	Square	GCM1020	10 x 20	0.3
		GCM1520	15 x 20	
		GCM1530	15 x 30	
		GCM2030	20 x 30	
		GCM3040	30 x 40	
<b>Collagen Membrane-P</b>	Square	GPCM1020	10 x 20	0.3
		GPCM1520	15 x 20	
		GPCM1530	15 x 30	
		GPCM2030	20 x 30	
		GPCM3040	30 x 40	
<b>Collagen Graft 2</b>	Square	PSD1010	10 x 10	3
		PSD1020	10 x 20	
		PSD1520	15 x 20	
		PSD2030	20 x 30	
	Round	PSD10C	Ø10	3
<b>Collagen Graft 2 Thin</b>	Square	PSD1010M	10 x 10	2
		PSD1020M	10 x 20	
		PSD1520M	15 x 20	
		PSD2030M	20 x 30	
	Round	PSD10CM	Ø10	2

# Dentium



Specifications are subject to change without any notice.  
Some products listed in this catalog are not available in the market due to pending approval.

## **Dentium** ***GENOSS***

CAT-B0401(Rev.5, 2409)

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**HOMEPAGE**

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