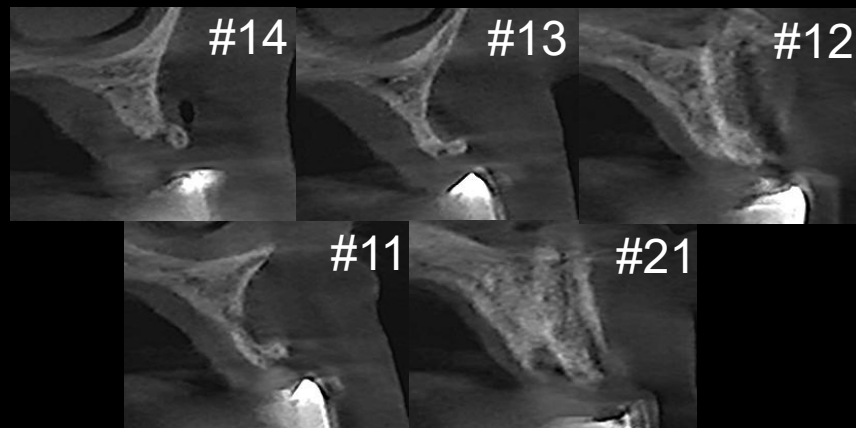
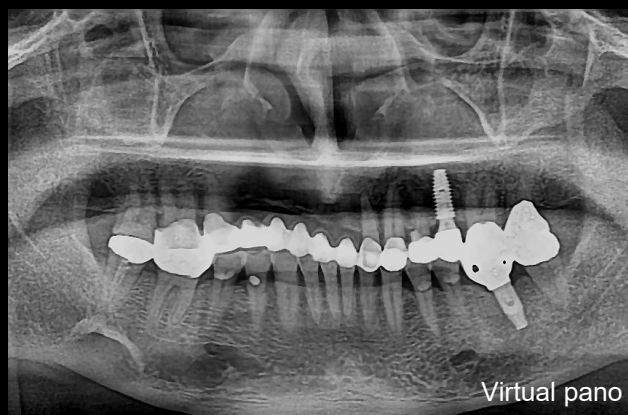


Overcoming Combined Defects with Easy Bone Graft



Dr. SM Chung

2026.06.05 (Fri)

This Month's Surgery

Patient Information

Age / Sex : 69y/ M

Chief Complaint

: The patient was dissatisfied with the curved form of the maxillary prosthesis and desires overall dental rehabilitation

Past Dental History

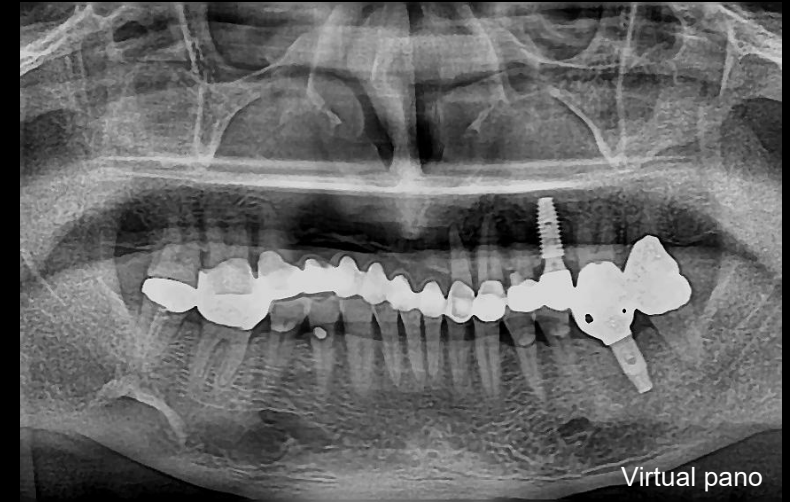
: Implant placed at #25

Missing maxillary teeth from #14 to #21

The maxillary prosthesis showed an unevenly curved contour due to severe bone resorption beneath the pontic area.

Past Medical History

: No significant past medical history



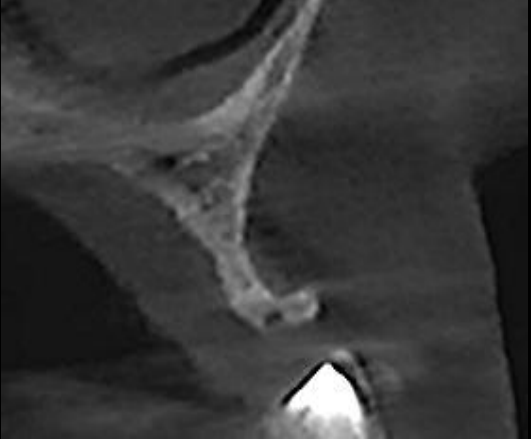
Pre-op



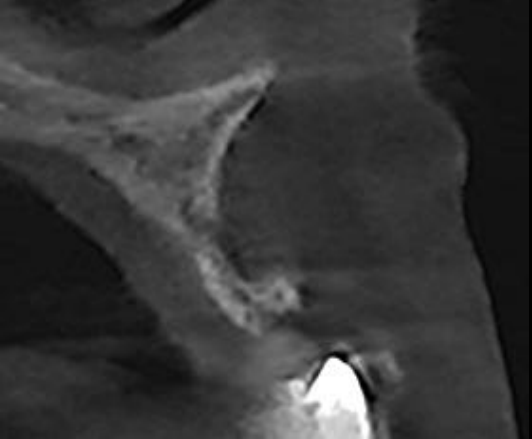




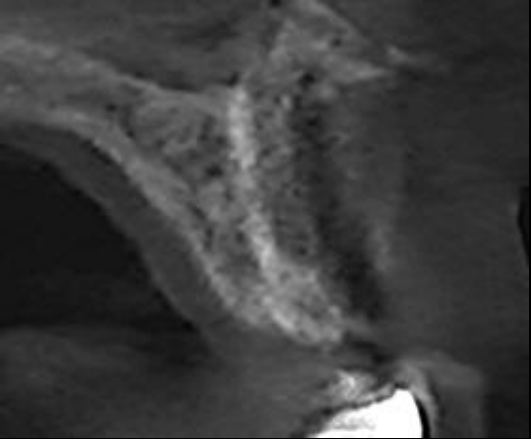
#14



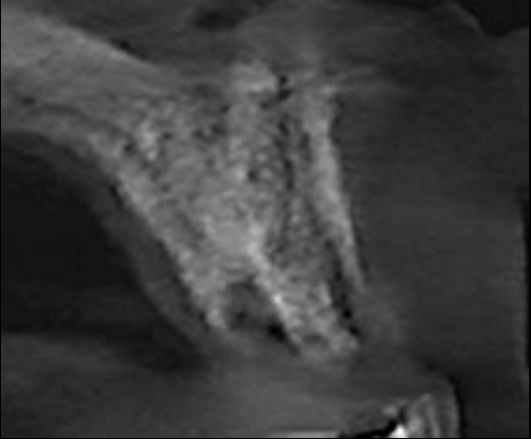
#13



#12

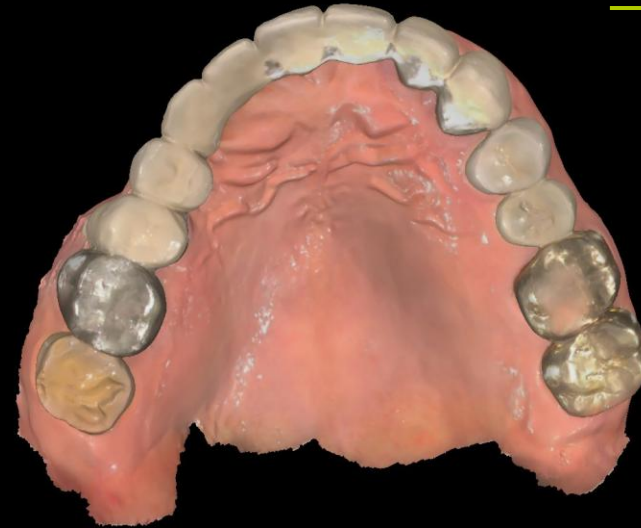


#11



#21

Intra Oral Scan

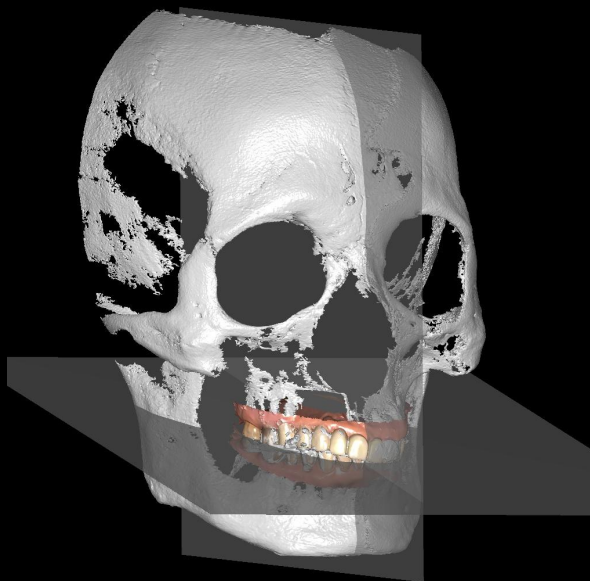


Virtual Set-up



Shining 3D AoralScan Elite wireless

+



bright CT
(AI Occlusal Plane)

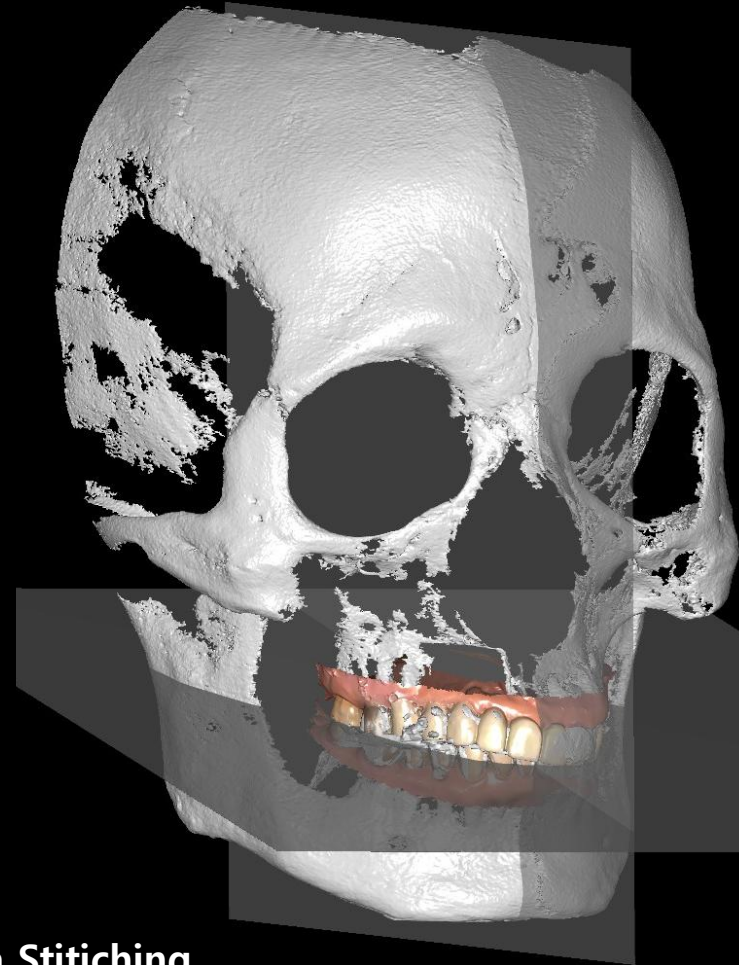
+



Shining 3D MetiSmile

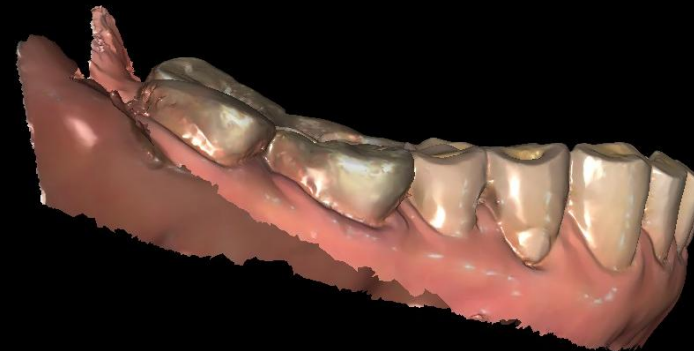


Facial data + Ios data + CT data Stitiching



Facial data + IOS data + CT data Stitiching

Virtual Set-up



Diagnostic analysis of the current oral status based on the AI occlusal plane

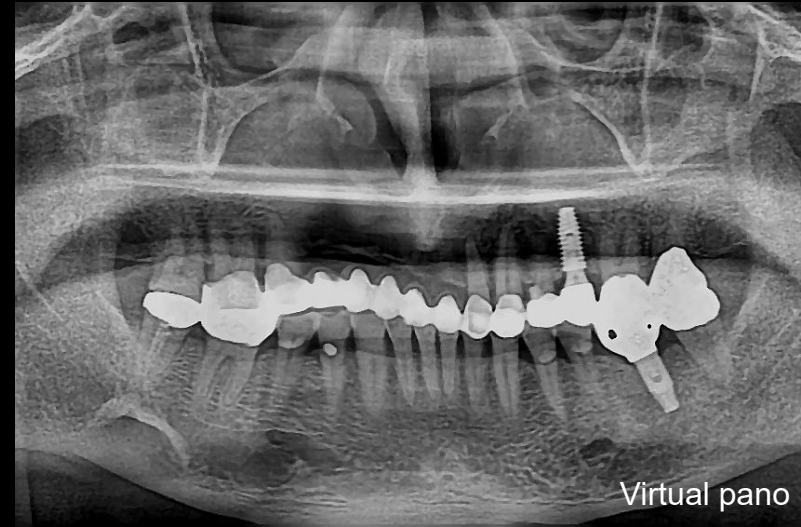


Before



After

Surgery Plan (#14,21)



- Bone grafting using **OSTEON™ Xeno** and **OSTEON™ Xeno Collagen**
- Soft tissue grafting using **Collagen Graft x1D** on the occlusal side and **x2D** on the labial side
- Implantation on #14 and #21 using **bright Tissue Level (Ø3.0 X 9.0, Ø3.5 X 9.0)**

Tissue Level bright Implant

20° External Taper with External Hex Connection for enhanced prosthetic stability

20°

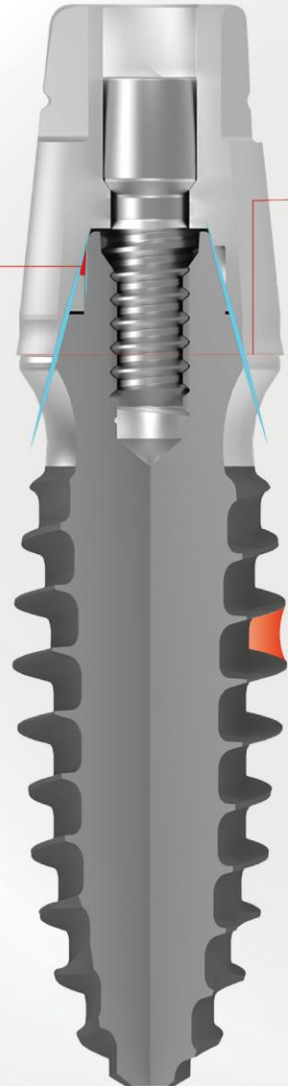
One Platform, One Prosthetic Connection for restorations from anterior to posterior regions

Ø 3.8mm

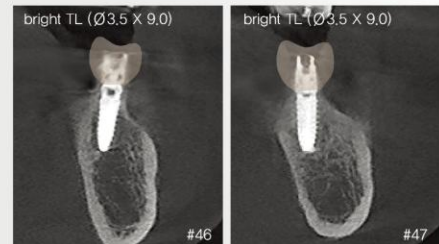
1.5mm G/H Under-contoured Design to support optimal soft tissue contouring

Thin and Deep Thread Design Maximizes contact with cancellous bone for increased long-term stability

Dome Shaped Body Enhances Primary Stability Better BIC on Cancellous Bone Marginal Bone Preservation

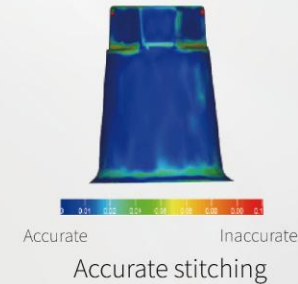


Ø2.0, 2.5, 3.0 Fixtures
→ suitable for placement in narrow anterior ridges



Ø3.5
→ Provide reliable solutions even in posterior regions

Simple but Versatile - Multifunctional Abutment



Digital Abutment From healing to final prosthesis, with only one abutment



Ti-Base Open-type design for anterior region with up to 25° angulation compensation



OSTEON™ Xeno

Only Bovine Cancellous Bone (100% HA)

OSTEON™ Xeno is chemically and structurally comparable to mineralized human bone

Only cancellous bone (Without cortical bone)

- Highly interconnected macro-/micropores
- Enables efficient absorption of blood, nutrients, and growth factors

Strict quality control

- Bovine bone from 6-month-old cattle
- Complete removal of organic substances



Indications

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



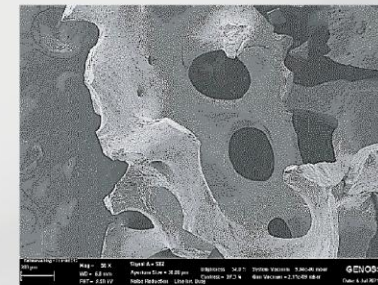
Excellent wettability



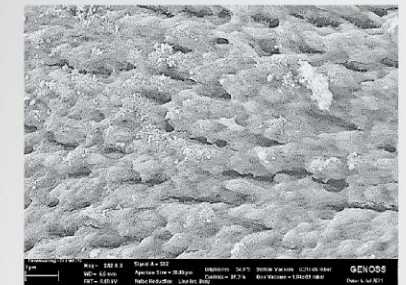
OSTEON™ Xeno surface structure



Macropore (OM)



Macropore (x50)



Macropore (x1000)

OSTEON™ Xeno Collagen

92% OSTEON™ Xeno Bovine Cancellous Bone (100% HA)
+ 8% Porcine Type I Collagen

Osteoconductive bone graft material

Only cancellous bone (Without cortical bone)
- Highly interconnected macro-/micropores

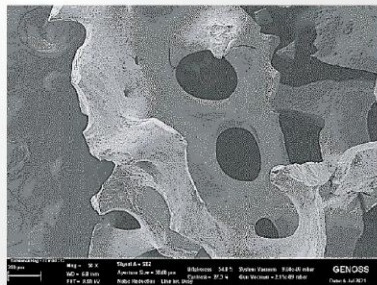
Strict quality control
- Bovine bone from 6-month-old cattle
- Complete removal of organic substances

Collagen scaffold
- For easier handling and reduced chairtime

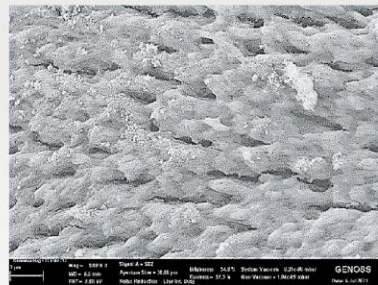
OSTEON™ Xeno surface structure



Macropore (0M)



Macropore (x50)



Macropore (x1000)

Indications

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



Excellent wettability



Collagen Graft x1D

Highly Pure Type I Collagen (Porous 80-90% + Dense 10-20%)

Promotes rapid vascularization and epithelization → Enhances soft-tissue volume

Characteristics

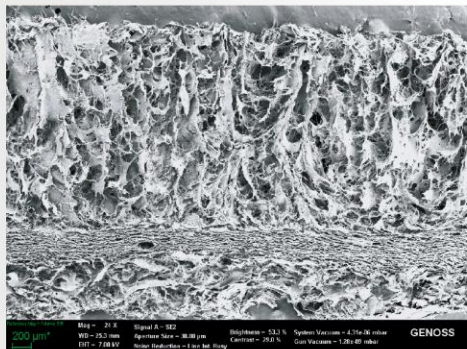
- Highly pure Type I collagen derived from porcine tendon
- A dense structure provides stability while allowing open healing.
- A porous layer structure supports blood clot stabilization and ingrowth of soft tissue cells.

Indications

- Ridge preservation (Open healing)
- Soft tissue augmentation
- Recovery of keratinized mucosa
- FGG alternative (Apically Positioned Flap)
- Root coverage

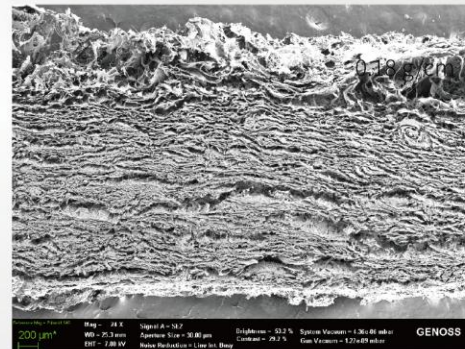


Collagen Graft x1D

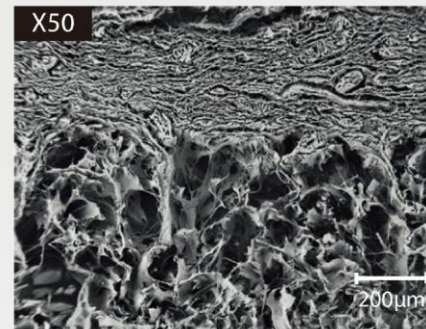


Collagen density : 0.08 g/cm³

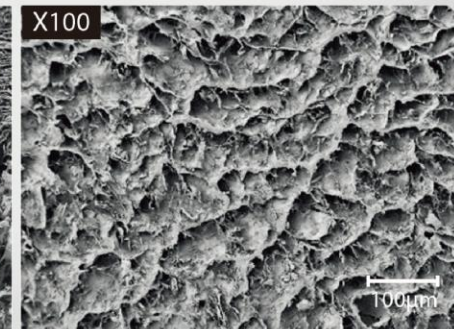
Collagen Graft x2D



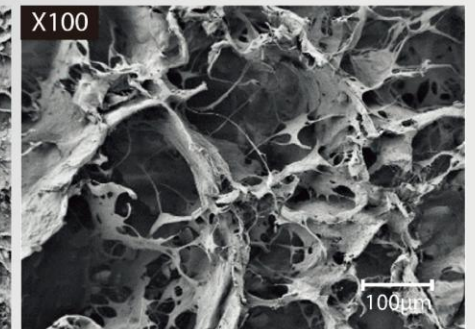
0.18 g/cm³



Cross section



Dense layer



Porous layer

Collagen Graft x2D

Highly Pure Type I Collagen (Porous 30% + Dense 70%)

Collagen Graft x2D is a high-density collagen matrix designed to provide enhanced volume stability and structural support

Stable handling and reliable support are maintained during suturing.



Characteristics

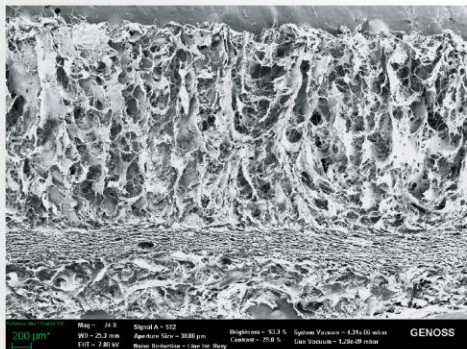
- Type I collagen derived from porcine tendon
- Double-layer structure: dense + porous layer
- Degradation time : Approximately 1 month

Indications

- Ridge preservation (Open healing)
- Soft tissue augmentation
- Recovery of keratinized mucosa
- Root coverage

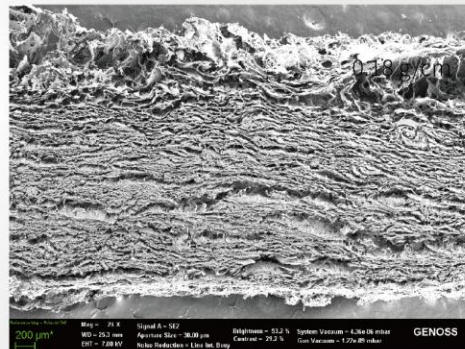


Collagen Graft x1D

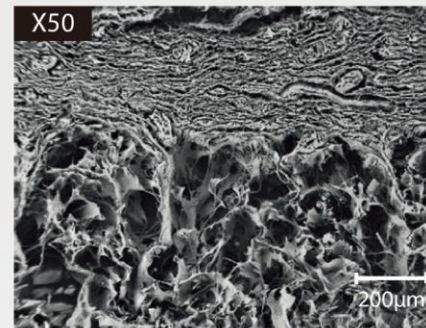


Collagen density : 0.08 g/cm³

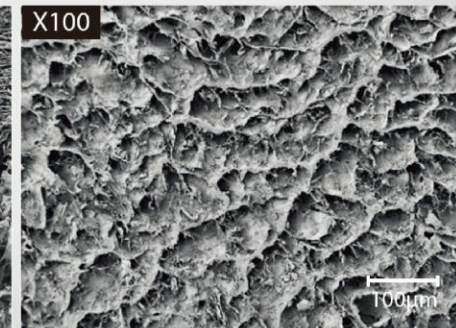
Collagen Graft x2D



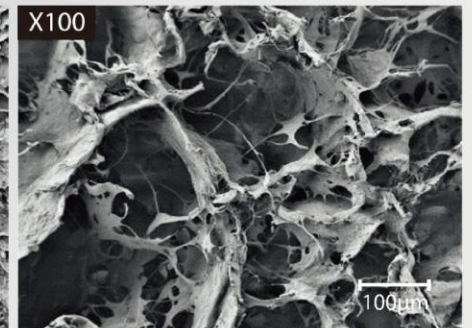
0.18 g/cm³



Cross section



Dense layer



Porous layer

