R CANCELLOUS SUBSTITUTE

Leading regeneration with quality, reliability, affordability

Manufactured with the highest quality standard moves your practice to high success rate and safety.





Ti-oss, natural bovine cancellous substitute becomes

New GOLD STANDARD in Xenograft.

Bone Graft





Ti-oss Syringe



Ti-oss Block



Our manufacturing technical level and Ti-oss quality

do not allow comparison to any products in the world.

Multiporosity structure

Ti-Oss is made from 100% ancellous bone without any cortical portion. Innovative pulverizing technique allows multiporous structure, maximizing blood vessel ingrowth.

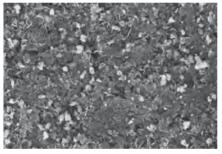
octacalcium Phosphate Crystal

Pre HA structure, octacal cium phosphate crystal is found on the surface of Ti-Oss, resulting in fast bone formation.

osteoconductive surface

Low temperature processing technique allows ideal, natural surface topograph, the same as human bone, stimulating osteoblast activity. Vitrification phenomenon caused by high temperature process has been completely controlled.

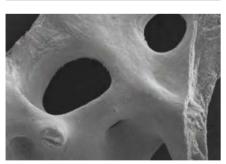




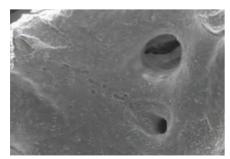
(SEM image x 10,000)



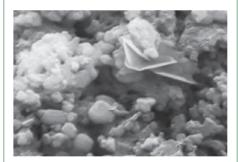




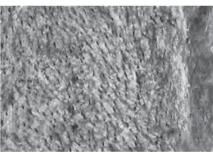
(Ti-oss SEM image x 100)



(A Co. SEM image x 100)



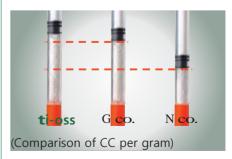
(SEM image x 50,000)



(SEM image x 3,000)

Large Volume

Unique 100% multiporous cancellous nature offers higher quantitative mass volume per gram unit, compared to other nonporous produc t. This leads to less material cost.

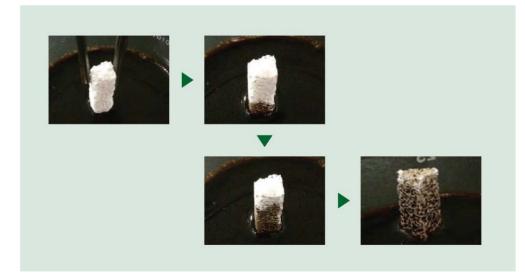


Ti-oss New Product

Ti-oss Block



Whole block of Ti oss opens new horizon to Bone grafting technique with these special fact. Average Ti oss pore size is more than three times of other world leading product. This advanced manufacturing technique permits rapid absorption of blood or saline into the block, allowing ingrowth of blood vessel and osteoblasts. Stabilization of Block is easily achieved by carving with surgical blade and adaptation in the patient mouth. Titanium screw or PRP fixation is possible.



Ti-oss Syringe



Ti oss particle is filled into the syringe form for easy handling onto the wound site. Several drops of Blood,

saline, PRP at the entrance of syringe allows wetting whole Ti oss particles in the syringe. Unique Ti oss pore size makes this possible.

Human Biopsy result

Osteoconductive nature of Ti oss surface was evaluated by biopsy specimens. Consistent new bone formations were noted in several different clinical cases. reliability of Graft success, early bone formation, Observation of Osteocyte Lacunae



Animal Comparison ; Multiporosity, Pore size, Natural topograph, octacalcium Phosphate

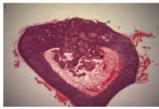
Make Significant Clinical Difference due to following factors.

- 1. angiogenesis by Porosity design.
- 2. Osteoblast movement by Natural Topograph
- 3. Fast Bone Formation by Octacalcium Phosphate Please look at the animal data.

ti-oss



rabbit Tibia 12 weeks - Ti oss New Bone well formed

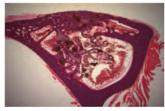


rabbit Tibia 12 weeks -Ti oss Densely formed



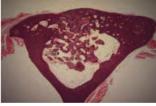
rabbit Tibia 12 weeks -Ti oss excellent Osteoconductivity

Competitor



rabbit Tibia 12 weeks

- "A" Co Loosely formed Bone



rabbit Tibia 12 weeks - "A" Co Loosely formed Bone



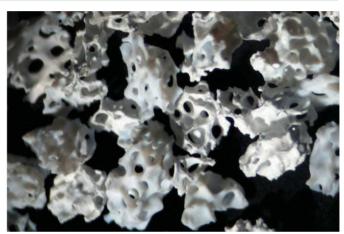
rabbit Tibia 12 weeks
- "A" Co Loosely formed Bone

Microscopic Comparison

Ti - oss multiporosity allows maximum angiogenic process, which is critical in first 2 weeks of initial bone healing stage. Osteoblast, oxygen, nutrients can not be supplied into the graft without blood vessel.
Ti - oss guarantees maximum revascularization into the graft, leading to high bone formation.



Gold Standard - Multiporosity



Uniformity of Ti - oss



"a" Co. Nonporous Glassified Surface



"B" Co. Nonporous Glassified



"a" Co. Damaged Porosity



"C" Co. Cortical Particle Included



"a" Co. all Cortical Particles





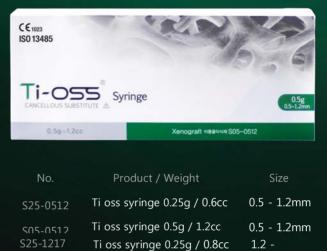
1.2 -

Introduction of Ti-oss to the world dental society is an honor. We have been researched over 2 years to reach the highest quality, developing new innovative processing techniques. Our goal is to serve dental profession with reliability, safety. ti-oss will strive for the future of tissue engineering and research.



No.	Product / Weight	Size
25-0512	Ti-oss 0.25g / 0.6cc	0.5 - 1.2mn
05-0512	Ti-oss 0.5g / 1.2cc	0.5 - 1.2mn
10-0512	Ti-oss 1.0g / 2 3cc	0.5 - 1.2mn
20-0512	Ti-oss 2.0g / 4.5cc	0.5 - 1.2mm
25-1217	Ti-oss 0.25g / 0.8cc	1.2 - 1.7mr
05-1217	Ti-oss 0.5g / 1.5cc	1.2 - 1.7mr
10-1217	Ti-oss 1.0g / 3.0cc	1.2 - 1.7mr
20-1217	Ti-oss 2.0g / 6.0cc	1.2 - 1.7mn

Ti-oss Syringe



Ti oss syringe 0.5g / 1.5cc

Ti-oss Block

CEINA

S05-1217

		ISO 13485	206	
		Ti-OSS CANCELLOUS SUBSTITU	Block Block 8x8x25mm	
Product / Weight	Size	Xe	anograft 이용표이식제 BLK8825	
Ti oss 0.25g / 0.44cc	0.2 - 1.0mm	_		
Ti oss 0.5g / 0.8cc	0.2 - 1.0mm	No.	Product	Size
Ti oss 1.0g / 1.51cc	0.2 - 1.0mm	BLK8812	Ti oss Block	8 x 8 x 12mm
Ti oss 2.0g / 2.98cc	0.2 - 1.0mm	BLK8825	Ti oss Block	8 x 8 x 25mm



25-0210 05-0210 10-0210 20-0210

> Guri-si, Gyeongchun-ro, 192, 6F, Gyeonggi-do, KOREA FAX. 82-31-568-3612 Inquiry. manager@ti-oss.com

www.ti-oss.com