

# IngeniOs<sup>®</sup> Silicated $\beta$ -TCP Synthetic Bone Particles



The resorbable, synthetic choice for bone regeneration

## Composition

IngeniOs Silicated  $\beta$ -TCP is an advanced silicated  $\beta$ -TCP formulation of biocompatible, osteoconductive material for bone regeneration. The grafting material is made from synthetic, silicated pure-phase beta tricalcium phosphate, providing the potential for increased bioactivity,<sup>1,2</sup> and rapid scaffold mineralization.

## For use:

- Socket preservation
- Augmentation or reconstructive treatment of the alveolar ridge
- Filling of intrabony periodontal defects
- Filling of defects after root resection, apicoectomy and cystectomy
- Sinus lift/elevation of the maxillary sinus floor



## FEATURES

- Silicated  $\beta$ -TCP formulation
- 100% Synthetic
- 75% Interconnected Porosity
- Radiopaque
- Mixable
- Resorbable
- Irregularly shaped granules

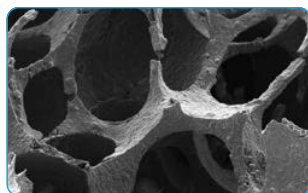
## BENEFITS

- Increases potential for bioactivity
- Designed to enable ingrowth of healthy bone tissue
- Easily visible on X-ray
- Can be used as graft extender or to add radiopacity and provides balanced, natural resorption within 4-6 months to regenerate mineralized bone
- Interlocking granules enhance mechanical stability, and minimize micro movement; The distribution of particle sizes and processing prevents early absorption which can cause an inflammatory response that can compromise bone healing



# Engineered For Balanced Resorption

IngeniOs Silicated  $\beta$ -TCP contains advanced silicated particles, which provide an ideal surface for bone forming cells to attach and remodel into host bone. The next generation silicate is designed for resorption over 4-6 months, in balance with replacement of natural bone.\* IngeniOs Silicated  $\beta$ -TCP works with the biologic drivers in autologous PRP, bone marrow or stem cells.

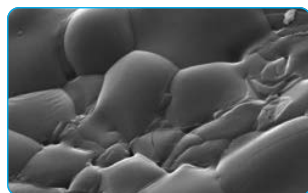


SEM 100x

## 1 75% Interconnected Porosity

Designed to support vascularized bone formation and the ingrowth of healthy bone tissue

- Interconnective, open cellular spongy structure
- Polygonal particles
- Pore Size 250 –450  $\mu$ m



SEM 3000x

## 2 Microstructure

- Irregular microsurface
- All sub particles are larger than 8  $\mu$ m
- No nanoparticles
- Bioactive silicate formulation facilitates 3D bone regeneration rather than dissolution and inflammation

### Ordering Information

Catalog #	Description
0-602501	IngeniOs Silicated B-TCP Synthetic Bone Particles, 0.25 cc, 0.25-1mm
0-600501	IngeniOs Silicated B-TCP Synthetic Bone Particles, 0.5 cc, 0.25-1mm
0-601001	IngeniOs Silicated B-TCP Synthetic Bone Particles, 1 cc, 0.25-1mm
0-602001	IngeniOs Silicated B-TCP Synthetic Bone Particles, 2 cc, 0.25-1mm
0-700501	IngeniOs Silicated B-TCP Synthetic Bone Particles, 0.5 cc, 1-2 mm
0-701001	IngeniOs Silicated B-TCP Synthetic Bone Particles, 1 cc, 1-2 mm
0-702001	IngeniOs Silicated B-TCP Synthetic Bone Particles, 2 cc, 1-2 mm

<sup>1</sup> Pietak AM, Reid JW, Stott MJ, Sayer M. Silicon substitution in the calcium phosphate bioceramics. *Biomaterials* 28 (2008) 4023 - 4032.

<sup>2</sup> C. Knabe, P. Ducheyne. Chapter 6 - Cellular response to bioactive ceramics, In: *Handbook of Bioceramics and their Applications*. Ed: Prof. Dr. Tadashi Kokubo, Woodhead Publishing Inc., Cambridge, UK, 2008, p.133-164.

\* Resorption time varies and is dependent on a number of factors, including graft location, size and patient factors.

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