

Designed to support vascularized bone formation

IngeniOs[®] Silicated β -TCP

Synthetic Bone Particles

The resorbable, synthetic choice for bone regeneration

Composition

IngeniOs Silicated β -TCP is an advanced silicated β -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,^{1,2} 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 β -TCP formulation
- 100% Synthetic
- 75% Interconnected Porosity
- Radiopaque
- Mixable
- Resorbable
- Irregularly shaped granules

BENEFITS

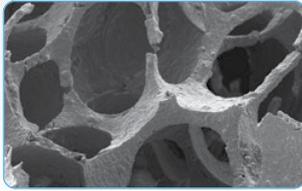
- Increases potential for bioactivity
- Designed to enable ingrowth of healthy bone tissue
- Easily visible on X-ray
- Can be used as graft extender or to add radiopacity and provides balanced, natural resorption within 4-6 months to regenerate mineralized bone
- Interlocking granules enhance mechanical 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



 **ZimVie**

Engineered for Balanced Resorption

IngeniOs Silicated β -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 β -TCP works with the biologic drivers in autologous PRP, bone marrow, or stem cells.

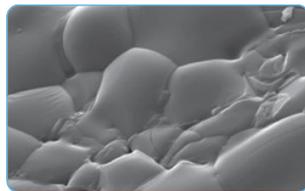


SEM 100x

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 μm



SEM 3000x

Microstructure

- Irregular microsurface
- All sub particles are larger than 8 μm
- 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 |

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

² 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.

For more information, visit ZimVie.com

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