

# IngeniOs<sup>®</sup> Silicated B-TCP Synthetic Bone Particles

# The resorbable, synthetic choice for bone regeneration

#### Composition

IngeniOs Silicated B-TCP is an advanced silicated B-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

**FEATURES** 

- Sinus lift/elevation of the maxillary sinus floor
  - 100% Synthetic75% Interconnected Porosity

• Silicated B-TCP formulation

- 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 regaenerate 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 B-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 B-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 spongious 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

<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.

#### For more information, visit ZimVie.com

7imVie 4555 Riverside Drive Palm Beach Gardens, FL 33410 1-800-342-5454

₴ ZimVie

Unless otherwise indicated, as referenced herein, all trademarks and intellectual property rights are the property of ZimVie Inc. or an affiliate; and all products are manufactured by one or more of the dental subsidiaries of ZimVie Inc. (Biomet 3i, LLC, Zimmer Dental, Inc., etc.) and marketed and distributed by ZimVie Dental and its authorized marketing partners. For additional product information, please refer to the individual product labeling or instructions for use. Product clearance and availability may be limited to certain countries/regions. This material is intended for clinicians only and does not comprise medical advice or recommendations. Distribution to any other recipient is prohibited. This material may not be copied or reprinted without the express written consent of ZimVie. ZV1664 REV A 09/23 ©2023 ZimVie. All rights reserved.

