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
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.

1 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

2 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

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

Contact us at 1-800-342-5454 or visit www.zimmerbiometdental.com

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