Biobone™ TCP

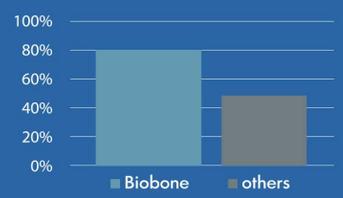
99,9% Tricalcium Phosphate(b-TCP)

Characteristics

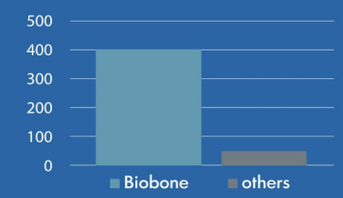
- **Synthetic**
  No Human nor Animal origin
- **100% Resorbable**
  Replace by new Bone Tissue
- **Osteoconductive**
  Highly Interconnected Porosity
  with excellent Mechanical Resistance
- **Perfect Osteointegration**
  Pore size: 300 to 500 micron

Biobone™ TCP acts like natural bone

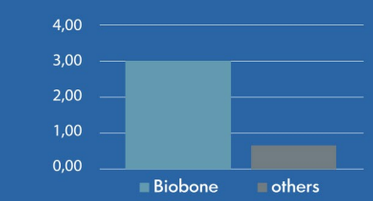
Porosity*



Pore Size (µm)*



Mechanical Resistance (MPa)*



*Reference: C. M. S. Ranito, F. C. Oliveira, J. P. Borges, "Hydroxyapatite foams for bone replacement" Key Mater. Eng. 284-286 (2005) 341-344; C. M. S. Ranito, "Fabrication of Hydroxyapatite foams bone medicalapplications", SPM, vol 15, nº3/4 (2003) 2-15;

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Biobone™ TCP is a porous synthetic ceramic, based in Tricalcium Phosphate (b-TCP). The TCP component, resorbs quickly and allows the ceramic to have properties which facilitate excellent osteointegration.

Applications

Biobone™ TCP is indicated for filling bone voids or defects of the skeletal system in:

- **Filling:**
  Bone Fixation in various sizes and forms of bone defect (hip revision, cup roof e.t.c)
- **Reconstruction:**
  Vertebral fusion, osteotomy addition e.t.c

References	Geometry	Size	Quantity
BIT030405G	Granules	3 - 4 mm	5cc x 1 Unit
BIT030410G			10cc x 1 Unit
BIT030415G			15cc x 1 Unit
BIT030430G			30cc x 1 Unit
BIT080820B	Block	8 x 8 x 20 mm	1 Unit
BIT151520B		15 x 15 x 20 mm	
BIT152030B		15 x 20 x 30 mm	
BIT080820C	Cylinder	8 x 20 mm	1 Unit
BIT062530W	Wedge	6 x 25 x 30 mm	1 Unit
BIT082530W		8 x 25 x 30 mm	
BIT102530W		10 x 25 x 30 mm	
BIT122530W		12 x 25 x 30 mm	
BIT142530W		14 x 25 x 30 mm	

Other references and geometries are available upon request

References:

- C. M. S. Ranito, F. A. Oliveira, J. P. Borges, "Mechanical behaviour of dense hydroxyapatite blocks", Advanced Materials ForumIII, Vol 514-516, 1083 (2006);
- C. M. S. Ranito, F. A. Oliveira, J. P. Borges, "Synthesis of calcium phosphate powders for biomedical applications using Taguchi s method", Advanced Materials Forum III, Vol 514-516, 1025 (2006);
- C. M. S. Ranito, F. C. Oliveira, J. P. Borges, "Hydroxyapatite foams for bone replacement", Key Mater. Eng. 284-286 (2005) 341-344;
- C. M. S. Ranito, "Fabrication of Hydroxyapatite foams bone medical applications", SPM, vol 15, n 3/4 (2003) 2-15;

Biobone™ TCP can be mixed with autograft, bone marrow, blood.

Produced exclusively for
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