

adbone® BCP

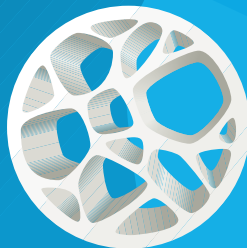
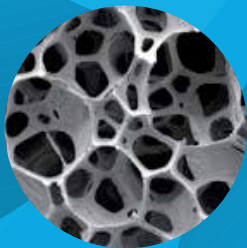
75% HAp / 25% TCP



adbone® BCP

Porous synthetic ceramic designed For the Filling of bone voids or defects.

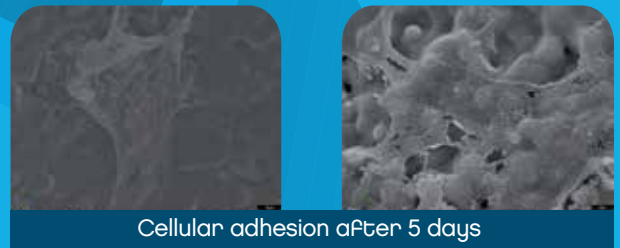
- adbone®BCP induces regeneration and bone growth:
 - Stimulates the proliferation and differentiation of osteoblasts;
- Composition:
 - 75% Hydroxyapatite;
 - 25% Tricalcium Phosphate (β -TCP);
- Highly interconnected porosity with an excellent mechanical resistance;
- adbone®BCP is replaced by new bone tissue – biphasic resorption due to its composition.



Indications

adbone® BCP is intended to be used as a bone void Filler or augmentation material For bone defects that are not intrinsic to the stability of the bony structure:

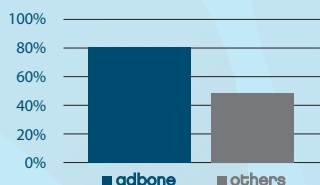
- Fractures with bone defect;
- Vertebral arthrodesis;
- Tibial osteotomy;
- Tibial and Femoral Fracture;
- Total knee and hip revision;
- Spine Surgery.



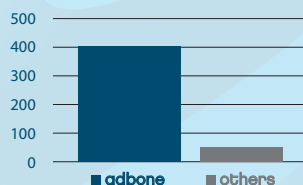
Cellular adhesion after 5 days

Excellent Malleability. Perfect Osteointegration and Osteoconduction. Exceptional bioactivity.

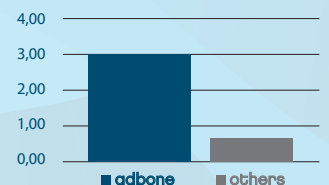
Porosity*



Pore Size (μm)*



Mechanical Resistance (MPa)*



adbone® BCP acts as natural bone.

*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 medical applications", SPM, vol 15, n°3/4 (2003) 2-15;

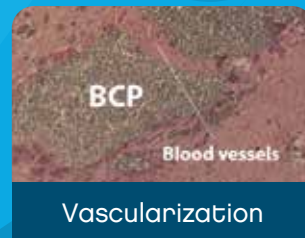
Why choose adbone®BCP?



Security



High Cohesiveness



Vascularization

Maximum Security
100% synthetic and 100% resorbable

Resorbable
adbone®BCP is replaced by new vital bone within 6-24 months.

High Cohesiveness
adbone®BCP particles present high cohesivity, conserving the volume of the initial cavity.

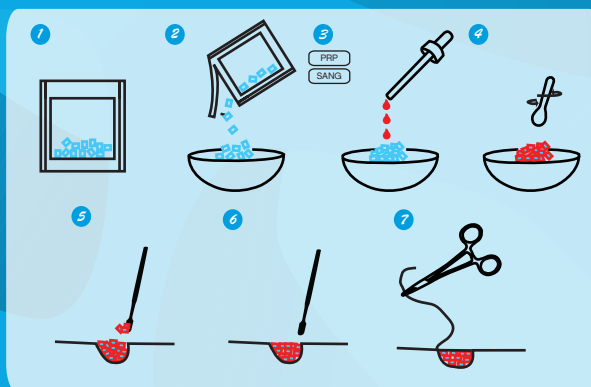
Radiopaque
Allows the perfect monitorization of osteointegration.

Multiple Geometries
High variety of granules, blocks, cylinders and wedges.

Vascularization
adbone®BCP induces a remarkable vascularization.

References	Geometry	Size	Quantity
BCP030425G	Granules	3 - 4 mm	2.5g x 1 Unit
BCP030405G	Granules	3 - 4 mm	5g x 1 Unit
BCP030410G	Granules	3 - 4 mm	10g x 1 Unit
BCP030415G	Granules	3 - 4 mm	15g x 1 Unit
BCP080820B	Block	8 x 8 x 20 mm	1 Unit
BCP151520B	Block	15 x 15 x 20 mm	1 Unit
BCP152030B	Block	15 x 20 x 30 mm	1 Unit
BCP080820C	Cylinder	8 x 8 x 20 mm	1 Unit
BCP062530W	Wedge	6 x 25 x 30 mm	1 Unit
BCP082530W	Wedge	8 x 25 x 30 mm	1 Unit
BCP102530W	Wedge	10 x 25 x 30 mm	1 Unit
BCP122530W	Wedge	12 x 25 x 30 mm	1 Unit
BCP142530W	Wedge	14 x 25 x 30 mm	1 Unit

Easy handling



References:

- C. M. S. Ranito, F. A. Oliveira, J. P. Borges, "Mechanical behaviour of dense hydroxyapatite blocks", Advanced Materials Forum III, 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;

Awards:

- National Young Entrepreneur Award 2012
- GESVENTURE Internationalization Award 2011
- Entrepreneur of the Year Award 2011
- National Women Entrepreneur Award 2011
- BES Innovation Award 2009
- Entrepreneurship Merit Medal 2009
- Business Ideas Contest Award 2008
- College of Material Science Engineering Award 2006
- Federation of the European Materials Societies Award 2003

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