

# adbone® BCP

75% HAp / 25% TCP



## adbone® BCP

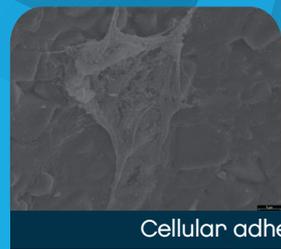
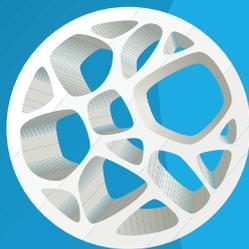
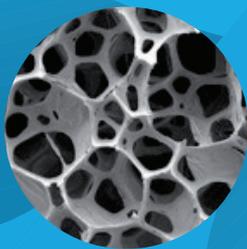
Porous synthetic ceramic designed for the filling of bone voids or defects.

- adbone® BCP induces regeneration and bone growth:
  - Stimulates the proliferation and differentiation of osteoblasts;
- Composition:
  - 75% Hydroxyapatite;
  - 25% Tricalcium Phosphate ( $\beta$ -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:

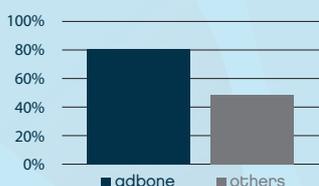
- Fractures with bone defect;
- Vertebral arthrodesis;
- Tibial osteotomy;
- Tibial and Femoral Fracture;
- Total knee and hip revision;
- Spine Surgery.



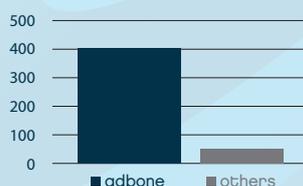
Cellular adhesion after 5 days

Excellent Malleability. Perfect Osteointegration and Osteoconduction. Exceptional bioactivity.

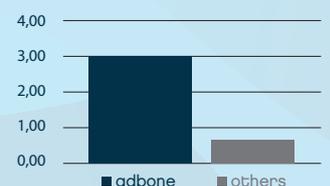
Porosity\*



Pore size ( $\mu\text{m}$ )\*



Mechanical Resistance (MPa)\*

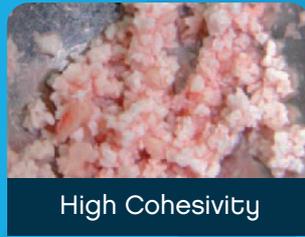


adbone® BCP acts as natural bone.

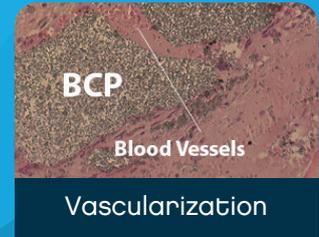
# Why choose adbone®BCP ?



Security



High Cohesivity



BCP

Blood Vessels

Vascularization

**M**aximum Security  
100% synthetic and 100% resorbable.

**R**esorbable  
adbone®BCP is replaced by new vital bone within 6-24 months.

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

**R**adiopaque  
allows the perfect monitorization of osteointegration.

**M**ultiple Geometries  
high variety of granules, blocks, cylinders and wedges.

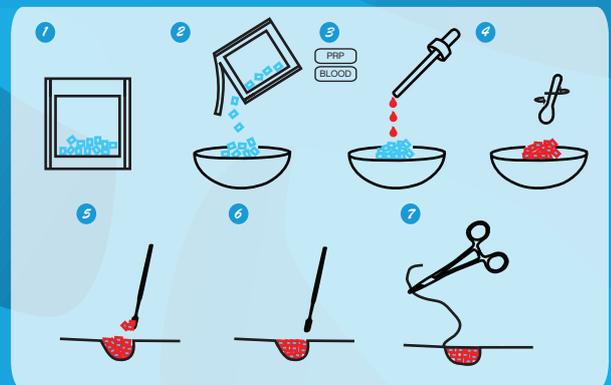
**V**ascularization  
adbone®BCP induces a remarkable vascularization.

References	Geometry	Size	Quantity
BCP050110P	Granules	0.5 - 1 mm	1g x 5 Units
BCP010210P		1 - 2 mm	
BCP030405G	Granules	3 - 4 mm	5g x 1 Unit
BCP030410G			10g x 1 Unit
BCP030415G			15g x 1 Unit
BCP080820B	Block	8 x 8 x 20 mm	1 Unit
BCP151520B		15 x 15 x 20 mm	
BCP152030B		15 x 20 x 30 mm	
BCP080820C	Cylinder	8 x 20 mm	1 Unit
BCP062530W	Wedge	6 x 25 x 30 mm	1 Unit
BCP082530W		8 x 25 x 30 mm	
BCP102530W		10 x 25 x 30 mm	
BCP122530W		12 x 25 x 30 mm	
BCP142530W		14 x 25 x 30 mm	

Other references and geometries are available upon request.

Easy handling

109



## 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

Manufactured by:



Medbone®  
MEDICAL DEVICES

Centro Empresarial Lusoworld II  
Rua Pé de Mouro, n°26 - Linhó I 2710-335 Sintra, Portugal  
Tel: +351 211 941 737 | e-Fax: +351 211 946 681  
e-mail: sales@medbone.eu  
www.medbone.eu



Distributed by:

