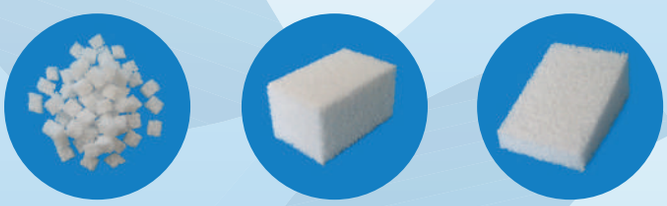
Medbone®
MEDICAL DEVICES

adbone®TCP

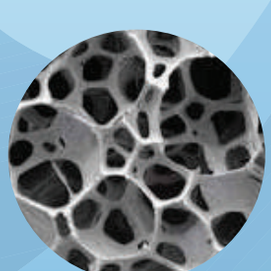
99,9% TCP

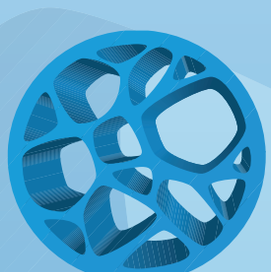


adbone®TCP

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

- adbone®TCP induces regeneration and bone growth:
  - Stimulates the proliferation and differentiation of osteoblasts;
- Composition:
  - 99,9% Tricalcium Phosphate (β-TCP);
- Highly interconnected porosity with an excellent mechanical resistance;
- adbone®TCP is replaced by new bone during the healing process.





Indications

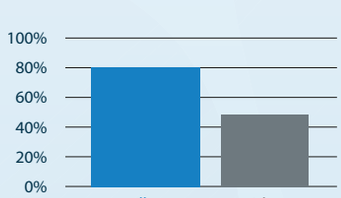
adbone®TCP is intended to be used as a bone void filler or augmentation material for bone defects that are not intrinsic to the stability of the bony structure:

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

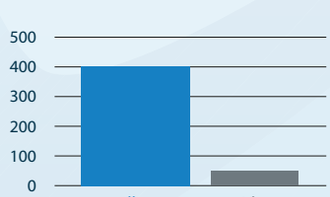
Cellular adhesion after 5 days

Excellent Malleability. Perfect Osteointegration and Osteoconduction. Exceptional bioactivity.

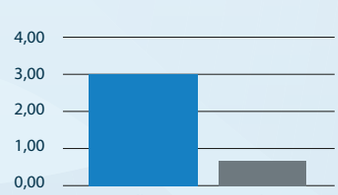
Porosity*



Pore Size (µm)*



Mechanical Resistance (MPa)*



adbone®TCP 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 medicalapplications", SPM, vol 15, n°3/4 (2003) 2-15;

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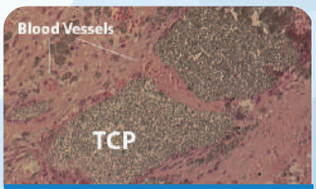
Why choose adbone®TCP ?

Security

High Cohesiveness



Vascularization

Maximum Security
100% synthetic and 100% resorbable.

Resorbable
adbone®TCP is replaced by new vital bone within 1-6 months.

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

Radiopaque
allows the perfect monitorization of osteointegration.

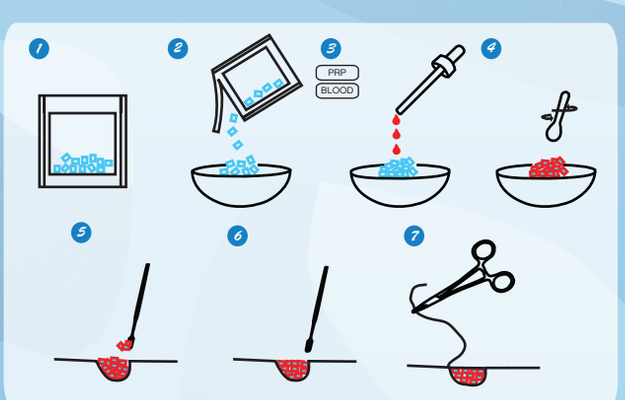
Multiple Geometries
high variety of granules, blocks, cylinders and wedges.

Vascularization
adbone®TCP induces a remarkable vascularization.

References	Geometry	Size	Quantity
TCP050110P	Granules	0.5 - 1 mm	1g x 5 Units
TCP010210P		1 - 2 mm	
TCP030405G	Granules	3 - 4 mm	5g x 1 Unit
TCP030410G			10g x 1 Unit
TCP030415G			15g x 1 Unit
TCP080820B	Block	8 x 8 x 20 mm	1 Unit
TCP151520B		15 x 15 x 20 mm	
TCP152030B		15 x 20 x 30 mm	
TCP080820C	Cylinder	8 x 20 mm	1 Unit
TCP062530W	Wedge	6 x 25 x 30 mm	1 Unit
TCP082530W		8 x 25 x 30 mm	
TCP102530W		10 x 25 x 30 mm	
TCP122530W		12 x 25 x 30 mm	
TCP142530W		14 x 25 x 30 mm	

Other references and geometries are available upon request

Easy handling



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;

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:

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MEDICAL DEVICES

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