

Origin: bovine, natural cancellous bone

Composition: pure bone mineral

Sizes: small granules / large granules

Biology: osseous cellular integration,
long term volume stability

CE mark approval: since 2002



botiss biomaterials GmbH
Hauptstr. 28
15806 Zossen / Berlin
Germany

Tel.: +49 33769 / 88 41 985
Fax: +49 33769 / 88 41 986

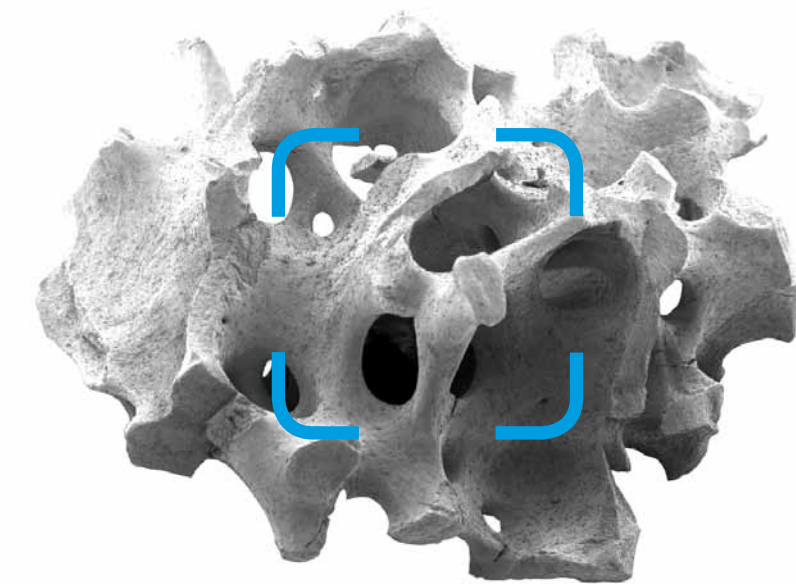
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INSIDE



cerabone®

cerabone®

The natural bovine
bone graft

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Purity & safety

The unique patented production process of cerabone® includes several high temperature treatments. This reliably removes all organic components including potential bacteria, viruses and prions¹. Heating creates a crystalline and pure biologic bone apatite free from organic components². Nonetheless, the natural porosity and surface structure of the bone mineral are not affected.

100%
biologic bone
apatite

maximum reliability

Bio-physical characteristics

> 100 scientific & clinical reports
(available on request)



Interconnected pores & hydrophilicity

cerabone® is a highly porous bone graft of ~65-80% porosity with a mean pore size distribution of ~600-900 µm. Macro pores allow fast ingrowth of blood vessels and bone-forming cells while micro pores promote quick blood uptake by the capillary effect³. After rehydration, the sticky particles can be easily applied into the bone defect.

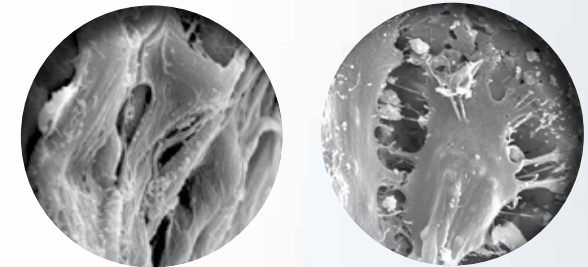
space for new bone matrix

What is heating?

In general, heating describes high temperature treatment of a certain material. For cerabone®, a patented production procedure was developed to preserve the natural porosity during heating while making it 100% safe.

Surface roughness & osteoconductivity

The inherent natural rough surface is preserved following the unique manufacturing process. By this means, cerabone® provides an appropriate scaffold for adherence and migration of osteogenic and blood vessel-forming cells.



cell adhesion & migration

> 15 years
scientific & clinical
experience

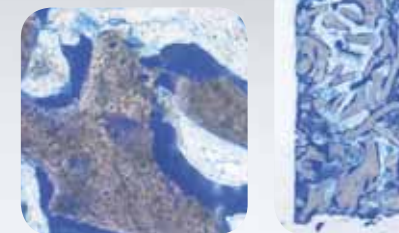
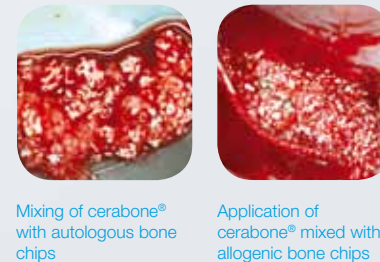


What is crystallinity?

Crystals are characterized by a highly ordered arrangement of its components on a molecular basis. Changes in the crystallinity alters the resorption behavior of a bone grafting material⁴, but does not affect the sharpness of the granules.

90 Used in more than countries

Asst. Prof. Stavros Pelekanos (Greece):
I am using cerabone® the last couple of years with excellent results. The main indications in my daily practice are horizontal and vertical bone defects during or before implant placement using resorbable (e.g. Jason® membrane) or non-resorbable membranes for GBR procedures. The volume stability and the clinical results are remarkable and I would always recommend it for such applications.



Histology six months after sinus lift with cerabone®: Integration of the granules and formation of new bone on the surface

permanent structural support

Osseous integration & volume stability

High temperature treatment of bovine bone increases its crystallinity^{4,2}, which makes cerabone® resistant to fast resorption allowing for long-term volume stability.



Find the webinar of Dr. Steigmann about cerabone® and related webinars on www.botiss-webinars.com

Dr. Marius Steigmann (Germany):
I am one of the first users of cerabone®. In my daily practice I use it to treat dehiscences, to regenerate atrophic ridges and to support the soft tissue in the aesthetic zone by contouring the underlying bone. I appreciate its excellent handling properties and its exceptional long-term volume stability. With cerabone® I know what to expect when doing the re-entry.

Used to treat
> 800.000
patients (12/2017)



Triple sterile - fulfilling highest clinical standards

GET IN TOUCH:

cerabone@botiss.com

1 Brown et al. 1999
2 Tadic et al. 2004
3 Gauthier et al. 1998
4 Fathi et al. 2008
5 Panagiotou et al. 2015

Clinical indications

> 20.000
clinical users
world-wide

Reconstruction of the vestibular bone Dr. K. Chmielewski, Poland			
Further clinical indications: Implantology and Oral and CMF Surgery - Horizontal augmentation - Vertical augmentation - Ridge preservation - Peri-implant defects - Socket preservation - Bone defect augmentation	Ridge augmentation Dr. A. Nader, Lebanon		
Periodontology - Furcation defects (class I - II)	Two-stage sinus lift with additional lateral bone augmentation Prof. Dr. Dr. D. Rothamel, Germany		
Regeneration of a periodontal intrabony defect Dr. R. Cosgarea and Prof. Dr. Dr. A. Sculean, Germany and Switzerland			

Find additional pictures, clinical cases and videos of cerabone® on www.indication-matrix.com