Product Catalog
Dental bone and tissue regeneration

hard & soft tissue

soft tissue
education
hard tissue
The botiss regeneration system:
Innovation, Safety, Reliability, and Esthetics

Botiss biomaterials offers a unique systematic BTR approach, the complete regenerative biomaterial portfolio for Implantology, Oral Surgery, CMF and Periodontology out of one hand.

We all know – no single bone graft or soft tissue biomaterial is able to suit all medical needs, biological situations and indications. A variety of factors (indication, age, hygiene, biotype, bone height, treatment plan) require a sophisticated approach with different, coordinated products.

To achieve optimal, predictable results, we offer you the botiss regeneration system. It includes all long-term proven biological materials (bovine, synthetic, allografts, collagen, granules, blocks, membranes, soft tissue matrices), in various combinations for specific indications. The products are manufactured with the highest quality standards and all products are strictly biological (e.g. no chemical cross-linking).

Patient safety, ease of use, reliable – and predictable treatment results – these are your and our first priorities. The products of botiss regeneration system have proven their success (safety, efficacy, reliability) in a multitude of preclinical and clinical studies, and even more importantly in the daily clinical work with hundreds of thousands of patients world-wide.

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bone regeneration

cerabone®

maxresorb®

maxresorb® inject

Straumann® BoneCeramic™


cerabone®

Natural Bovine Bone Grafting Material

Bovine bone grafting material is – due to its reliability and treatment predictability – the material of choice for the majority of dentists. cerabone® is a highly reliable, dimensionally stable, safe bone graft. It is derived from the mineral phase of bovine bone, which shows strong resemblance to human bone (surface, porosity and chemical composition).

Due to the pronounced hydrophilicity of the cerabone® surface, mixing with blood or physiological saline solution provides a suitable stickiness for optimal moldability. The 3-dimensional porous network allows fast deposition and penetration of blood serum and proteins, and serves as a reservoir for proteins and growth factors. The unique manufacturing process based on high-temperature heating removes all proteins and other organic components, and eliminates potential immunological reactions. cerabone® is the leading natural bovine bone grafting material of German origin, as evidenced by clinical and scientific success.

Properties
- Natural bovine bone grafting material
- Fast integration by new bone formation
- Long-term 3-dimensional graft stability
- No foreign body or inflammatory reaction
- Rough surface, optimal cell adhesion and blood absorption
- Interconnective porosity
- Safe and sterile
- Easy handling

Indications:
- Implantology
- Periodontology
- Oral Surgery & CMF
  - Sinus lift
  - Horizontal augmentation
  - Intrabony defects
  - Peri-implant defects
  - Extraction sockets
  - Vertical augmentation
  - Furcation defects

Histology of cerabone® 6 months after sinus lift. Optimal integration and bone healing with cerabone®.

Product Specifications

cerabone® granules

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cerabone® block

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maxresorb®
Synthetic Biphasic Calcium Phosphate

maxresorb® is an innovative, safe, reliable and fully synthetic bone graft substitute with improved controlled resorption properties and outstanding handling characteristics.

The homogenous composition of 60% hydroxyapatite (HA) and 40% beta-tricalcium phosphate (β-TCP) results in two active mineral phases: it supports the formation of new vital bone and maintains the volume and mechanical stability over a long time period.

The osteoconductivity of maxresorb® is achieved by a matrix of interconnected pores ranging from 200-800 μm, and a very high porosity of approx. 80%. The high macroporosity of maxresorb® is ideal for osteogenic cell ingrowth and efficiently promotes the regeneration of vital bone. The high microporosity and surface roughness of maxresorb® facilitates increased diffusion of biological fluids and cell attachment. maxresorb® is manufactured ensuring a completely homogenous distribution of the two calcium phosphate phases; resulting in a graft material equally reliable to bovine bone. The unique maxresorb® production process leads to a highly nano-structured, bioactive rough surface for improved cell adherence and hydrophilicity.

Properties
- Synthetic, resorbable & safe
- Volume & mechanical graft stability
- Unique multistep production process
- 60% HA / 40% β-TCP
- Osteoconductive
- Ultra high interconnected porosity
- Micropores from ~1-10μm

Product Specifications
maxresorb® granules
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maxresorb® cylinder
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maxresorb® blocks
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<td>21221</td>
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maxresorb® inject
Innovative Synthetic Injectable Bone Paste

maxresorb® inject is a unique and highly innovative, injectable bone graft paste, with improved resorption properties.

The unique four-phasic homogenous composition of gel, active hydroxyapatite and granules of 60% HA / 40% beta-TCP supports the formation of new vital bone, maintains volume and mechanical graft stability, and is gradually replaced by mature new bone.

The highly viscous maxresorb® inject paste allows perfect shaping, molding, fitting and complete bone bonding to the surrounding bone surface of the defect. maxresorb® inject is a non-hardening synthetic bone paste.

Properties
- Injectable & easy handling
- Non-hardening bone graft paste
- Synthetic, resorbable & safe
- Viscous and moldable
- Active hydroxyapatite gel
- 60% HA / 40% β-TCP granules
- Osteoconductive
- Ultra high interconnected porosity

Product Specifications
maxresorb® inject
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<tr>
<td>22105</td>
<td>1x syringe</td>
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Indications:
- Implantology, Periodontology, Oral Surgery & CMF
- Sinus lift
- Ridge augmentation
- Intraosseous defects
- Extraction sockets
- Osseous defects
- Furcation defects

maxresorb® inject paste - easy handling and good moldability.

Indications:
- Implantology, Periodontology, Oral Surgery & CMF
- Sinus lift
- Intraosseous defects
- Extraction sockets
- Osseous defects
- Furcation defects

Histology of maxresorb® inject 6 months after sinus lift. Optimal integration and bone healing with maxresorb® inject.

maxresorb® inject unique injectable synthetic bone graft.

Histology of maxresorb® 6 months after sinus lift. Optimal integration and bone healing with maxresorb®.

Unique Regenerative Four-Phases Activity
- water/gel
- active HA
- carrier guided
- cell activation, bioactive
- active regeneration
- balanced resorption and bone formation volume stability
**Straumann® BoneCeramic™**

**Synthetic Biphasic Calcium Phosphate**

*Properties*
- osteoconductive
- biocompatible
- 100 % synthetic
- safe, reliable, sterile
- slowly resorbable
- extensively clinically documented in approx. 25 clinical- and 20 pre-clinical studies (pubmed research)

*BoneCeramic™* is a fully synthetic bone graft substitute of medical-grade purity in particulate form. It is designed to support bone regeneration and preservation of bone volume.

BoneCeramic™ is composed of biphasic calcium phosphate – a mixture of 60 % hydroxylapatite (HA), which is 100 % crystalline, and of 40 % of beta tricalciumphosphate (β-TCP).

Hydroxylapatite (HA) undergoes very slow resorption, therefore helps to maintain a scaffold over time, which is necessary for volume preservation. β-TCP undergoes faster degradation allowing for substitution by the patient’s own bone.

Combining the features of these two materials, BoneCeramic™ gradually resorbs and is substituted by the patient’s own vital bone, without compromising the bone volume preservation.

The manufacturing process features homogeneous phase distribution and batch-to-batch consistency. BoneCeramic™ is 90 % porous and has interconnected pores of 100–500 microns in diameter, facilitating the ingrowth of bone forming cells and nutritive blood vessels.

Handling made easy

When applied, BoneCeramic™ rapidly absorbs fluids, forming granular putty. The wetted granules adhere to the application instrument and subsequently fit the bony defect nicely.

**Indications:**
- Implantology, Periodontology, Oral Surgery & CMF
  - bony defects of the alveolar ridge
  - tooth extraction sites
  - sinus floor elevation
  - intrabony periodontal osseous defects and furcation

**Product Specifications**

<table>
<thead>
<tr>
<th>Art.-No.</th>
<th>Particle Size</th>
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<td>072.205</td>
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**Tissue regeneration**

**Jason® membrane**

**collprotect® membrane**

**collacone®**

**Straumann® Emdogain®**
Jason® membrane
Pericardium GBR/GTR Membrane

Jason® membrane provides a long-lasting, adequate barrier function for ~12-28 weeks.

Due to the unique, patented production process, the superior properties of the native pericardium are preserved, maintaining the characteristics of its natural tissue. The use of Jason® membrane for regeneration of bone and tissue is an essential component of the GBR and GTR concept.

Properties
- Long-lasting barrier function for ~12-28 weeks
- Native structure of low thickness
- Easy manipulation, can be applied dry or wet
- No stickiness after rehydration
- Fast vascularization due to 3-dimensional structure
- Multidirectional strength and tear resistance

Indications:
- Implantology, Periodontology, Oral Surgery & CMF
- Implant dehiscence
- Sinus lift
- Protection of Schneiderian membrane
- Fenestration defects
- Extraction sockets
- Ridge preservation
- Horizontal & vertical augmentation
- Alveolar ridge reconstruction
- Intrasseous defects (1-3 walls)
- Furcation defects (class I-II)

Product Specifications

<table>
<thead>
<tr>
<th>Jason® membrane</th>
<th>Art. No</th>
<th>Size</th>
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<td>681520</td>
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<td>1 membrane</td>
<td></td>
</tr>
<tr>
<td>682030</td>
<td>20x30mm</td>
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</tr>
<tr>
<td>683040</td>
<td>30x40mm</td>
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collprotect® membrane
Natural Collagen Membrane

collprotect® membrane is a natural collagen membrane. Due to the rough and porous three-dimensional collagen structure, controlled wound healing in combination with guided bone and tissue regeneration achieves optimal treatment results. During the regeneration process the collprotect® membrane offers the necessary barrier function balanced with a controlled resorption time without inflammatory soft tissue reaction.

The soft tissue around the collprotect® membrane usually heals without complications, also in cases of postoperative dehiscence. The pore size of the collprotect® membrane prevents rapid ingrowth of soft tissue whilst still allowing blood vessel and nutrient penetration leading to quick integration into the surrounding tissue. This unique biological function provides a perfect basis for hard and soft tissue healing.

Properties
- Three dimensional natural collagen matrix
- Controlled wound healing and blood clot support
- Optimal barrier function in GBR/GTR procedures
- Resorption time approx. 8-12 weeks
- Easy application and handling in dry or wet status
- Rough and porous structure for cell guidance
- Natural collagen structure

Indications:
- Implantology, Periodontology, Oral Surgery & CMF
- Protection or covering of minor perforations of the Schneiderian membrane
- Sinus lift
- Socket preservation
- Horizontal and/or vertical ridge augmentation
- GBR/GTR simultaneous use with bone substitutes
- Fenestration and dehiscence defects

Product Specifications
collprotect® membrane

<table>
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<tr>
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<th>Size</th>
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<tr>
<td>603040</td>
<td>30x40mm</td>
<td>1 membrane</td>
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</table>

Histology 6 weeks after implantation of collprotect® membrane: Blood vessels have penetrated the porous structure. Collagen fibres are visible and the resorption proceeds without any inflammatory tissue response.
Product Specifications

<table>
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<th>collprotect® membrane</th>
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<tbody>
<tr>
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<tr>
<td>683040</td>
<td>30x40mm</td>
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</table>

**Indications:**
- Closure of extraction sites
- Biopsy sites
- Minor oral wounds
- Control and stop of bleeding
- Internal sinus lift

**Properties**
- Resorption within ~2-4 weeks
- Stabilization of blood clot and efficient local haemostasis
- Maintains integrity in the presence of blood and during application
- Wound protection
- Three dimensional matrix for tissue ingrowth
- Controlled wound healing process
- Native collagen cone
- Haemostatic reactivity

**Clinical use of collacone®.**

**Product comparison**

Jason® membrane versus collprotect® membrane

**Origin**
- Jason®: Pericardium
- Collprotect®: Dermis

**Degradation**
- Jason®: 12-28 weeks
- Collprotect®: 8-12 weeks

**Structure**
- Jason®: Differently oriented collagen fibers providing multi-directional tear resistance
- Collprotect®: Dense network of collagen bundles with pores for better vascularization

**Handling**
- Jason®: Highly adaptive
- Collprotect®: Slightly rigid

**SEM: collacone® collagen fibres 3-dimensional network.**


**Product Specifications**

<table>
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<th>Art.-No.</th>
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**Properties**
- Induces true regeneration as evidenced by human histological studies
- Easy to apply in difficult accessible defects and in minimal invasive procedures
- Shows less complications compared to membranes
- Well researched with 800 scientific and 200 clinical publications
- Based on 10-year long-term evidence in intrabony and recession defects
- May be combined with various bone graft materials
- Available in 3 different volume sizes allowing flexible treatment options
- Stimulates bone formation and angiogenesis

**Indications:**
- GTR, intrabony and wide intrabony defects
- Recession
- Class I and II furcation defects
- Extraction sites

**Product Specifications**

<table>
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**Literature**
- Studen et al., Clin Adv Periodontics 2011, 1:101-117
**Sinus lift: cerabone®; Jason® membrane**  
**Dr. Alessandro Rossi, Milan**
- Clinical view of the sinus lift area
- Preparation of the lateral sinus lift window
- Filling of the sinus cavity with cerabone® 1.0-2.0mm particle size
- Covering the lateral sinus lift area with Jason® membrane 20x30mm size

**Sinus lift & lateral augmentation: maxresorb®; Jason® membrane**  
**PD Dr. Dr. Daniel Rothamel, Cologne**
- Preparation of a lateral sinus window
- Sinus lift and additional lateral augmentation with maxresorb® 0.8-1.5mm
- Covering of the augmentation area with Jason® membrane
- Bone regeneration six months after implant insertion

**Sinus lift and ridge augmentation with simultaneous implantation: cerabone®; Jason® membrane**  
**Dr. Derk Siebers, Berlin**
- Filling of sinus cavity with cerabone® 1-2mm
- Immediate implantation
- Clinical view after augmentation with cerabone® and implant insertion
- Final prosthetic restoration

**Sinus lift: cerabone®; collprotect® membrane; Jason® fleece**  
**Dr. Viktor Kalenchuk, Chernivtsi**
- Filling of subantral cavity with cerabone® 1.0-2.0 mm
- Covering of the augmentation site with collprotect® membrane
- Soft tissue defect coverage with Jason® fleece and wound closure
- Soft tissue situation after six months healing time

**Ridge augmentation: maxgraft® bonebuilder; Jason® membrane**  
**Dr. Markus Schée, Forchheim**
- Clinical situation before maxgraft® bonebuilder augmentation
- maxgraft® bonebuilder block fixation, perfect bone to block surface contact
- Complete maxgraft® bonebuilder block coverage with Jason® membrane 20x30mm size
- Wound closure and suturing

**Ridge augmentation: cerabone®; maxgraft®; Jason® fleece; PRF®**  
**Dr. Reda Benkiran, Cannes**
- Clinical situation after implant placement
- Vertical and horizontal augmentation with cerabone® and maxgraft® particles (mix ratio 1:1)
- Covering of the augmentation area with Jason® fleece soaked with PRF®
- Covering with patient’s own PRF® matrix

**Ridge augmentation with simultaneous implantation: maxresorb® inject; Jason® membrane**  
**Dr. Dr. Andres Stricker, Konstanz**
- Situation before implantation and augmentation
- Implantation and augmentation with maxresorb® inject
- Covering of the augmentation site with Jason® membrane
- Situation four months post-OP after healing

**Filling of biopsy harvesting site: Jason® fleece**  
**Dr. Roland Török, Nuremberg**
- Clinical situation
- Jason® fleece placed in biopsy harvesting site
- Closure of biopsy site
- Recession coverage with gingival soft tissue graft
Product Portfolio Product Codes

**Hard tissue regeneration**

<table>
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<th>Product</th>
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<td>0.5-1.0mm</td>
<td>1x0.5cc (ml)</td>
</tr>
<tr>
<td></td>
<td>200010</td>
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<td>1x1.0cc (ml)</td>
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<tr>
<td>maxresorb® inject</td>
<td>220005</td>
<td>Te syringe</td>
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<tr>
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<td>070.103</td>
<td>0.4-0.7mm</td>
<td>1x0.25g</td>
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<td>070.104</td>
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<td>1x0.5g</td>
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<tr>
<td>maxresorb® cylinder</td>
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<td>20x20x10mm</td>
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<td>1xblock</td>
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**Soft tissue regeneration**

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<tr>
<th>Product</th>
<th>Art.-No.</th>
<th>Particle Size</th>
<th>Content</th>
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<tr>
<td>Jason® membrane</td>
<td>691012</td>
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<td>691030</td>
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<td>30x40mm</td>
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<td>collprotect® membrane</td>
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<td>1 membrane</td>
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<tr>
<td></td>
<td>603040</td>
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<td>cerabone® block</td>
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<td>511112</td>
<td>~12pieces</td>
<td>single sterile unit</td>
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</tr>
</tbody>
</table>

**Dental biomaterials for every indication and preference to complement implant therapy**

* Straumann® Emdogain®
  - Art.-No. 075.098: Straumann® Emdogain® 0.15 ml x 5
  - Art.-No. 075.101: Straumann® Emdogain® 0.3 ml x 1
  - Art.-No. 075.102: Straumann® Emdogain® 0.7 ml x 1
  - Art.-No. 075.114: Straumann® Emdogain® 0.5 ml multipack 3 x 0.3 ml PrefGel®
  - Art.-No. 075.116: Straumann® Emdogain® 0.7 ml multipack 3 x 0.7 ml PrefGel®
  - Art.-No. 075.117: Straumann® Emdogain® PLUS 1 x 0.7 ml PrefGel®
  - Art.-No. 075.203: Straumann® PrefGel®

More than a partnership.
A synergy of strengths.

Today, almost every second implant treatment requires GBR procedures. We, as a global leader in implant and restorative dentistry, are driving this trend by partnering with botiss, a leading manufacturer of high-quality dental biomaterials:

- Dental biomaterials for every indication and preference to complement implant therapy
- Implants, biomaterials and prosthetics out of one hand

Learn more about our products at www.straumann.com/regen.
Innovation. 
Regeneration. 
Aesthetics.