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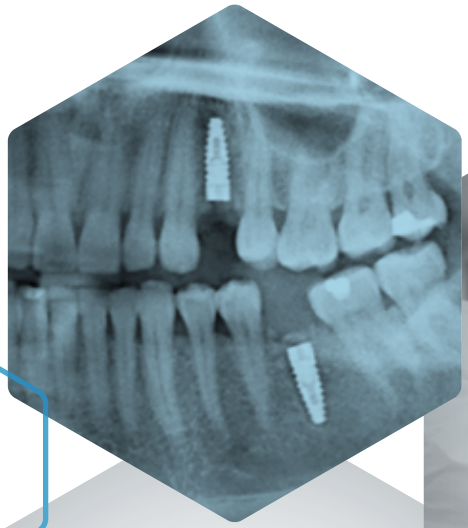
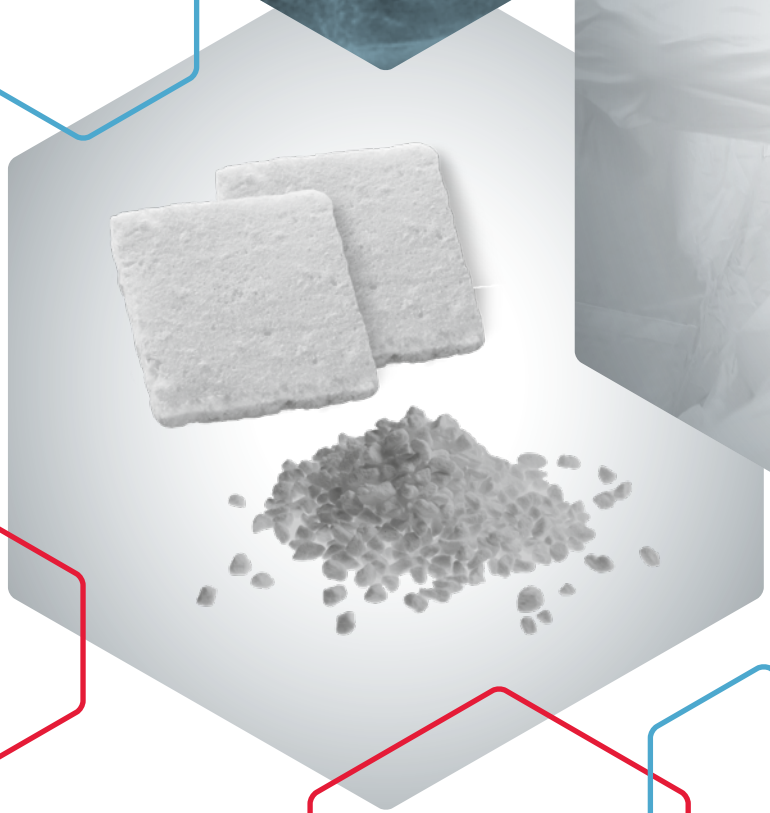
GUIDED TISSUE AND BONE REGENERATION

DENTAL BIOMATERIALS





PIONEERS IN BIOSURGERY

curasan is established as an innovator and specialist for regenerative medicine in the dental market for more than 30 years.

As a global technology leader, the company has specialized in the growth and future segment of regenerative medicine, particularly in bone regeneration materials for use in dental implantology and oral surgery. These are materials that restore biological structures.

An innovative product pipeline for bone and tissue regeneration has been established and expanded under the **CERASORB®** umbrella brand. **OSBONE®**, **OSGIDE®** and **EPI-GUIDE®** systematically complete the **CERASORB®** product portfolio of bone regeneration materials. Other areas of application in the product range include hemostyptics.

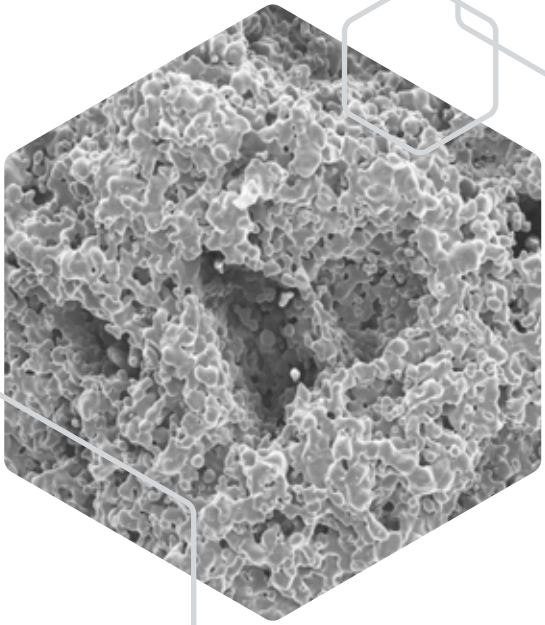
With curasan solutions, users in the professional community rely on the best research teams and development engineers in the industry. The phase purity of the β-tricalcium phosphate used in **CERASORB®** is still considered the gold standard in the market worldwide. The versatile product variants available, ranging from granules, pastes to mouldable collagen sponges, provide surgeons and implantologists with maximum flexibility.

BENEFITS OF CURASAN

DENTAL BIOMATERIALS

Safe and High-Quality Products

- Manufactured according to cGMP standards
- Excellent biocompatibility profile worldwide approvals
- Product designs mimic human structures
- High purity provides full remodeling into patient bone
- Porosity provides a balance of stability and turnover time
- Healing properties confirmed clinically
- Over 220 articles critically describing curasans dental portfolio including long term studies compared to human autograft



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RELIABLE GROWTH OF

NEW TISSUE AND BONE

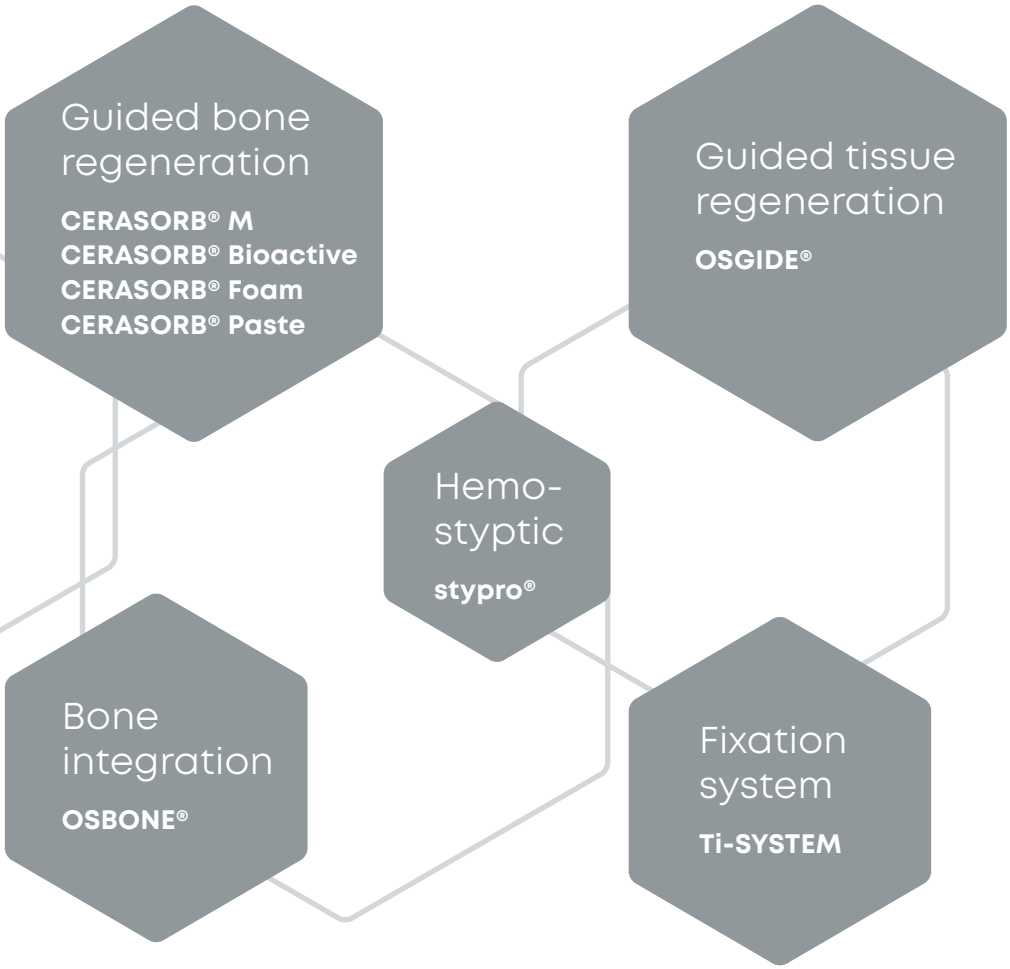
SOLUTIONS FOR YOUR GTR/GBR PROCEDURES

- 99% phase purity
- Completely and evenly remodeled
- Osteoconductive
- Safe, non-organic, bone regeneration material

- Biological compatibility
- Barrier function
- Tissue integration
- Easy to use

BONE GRAFTING

FIXATION & MEMBRANES



- High degree of purity
- Long-lasting volume stability
- Optimal osteoconductive scaffold
- 80% porosity

- Reliable positioning
- Smooth healing without irritation
- Quick and precise handling
- All parts of the system separately available

Guided bone regeneration and integration

	CERASORB® M	CERASORB® Bioactive	CERASORB® Foam	CERASORB® Paste	OSBONE®
Sinus floor elevations	⊕	⊕	⊕	⊕⊕ [1]	⊕
Socket and ridge preservation	⊕	⊕	⊕⊕	●	⊕
Implant bed preparation	⊕	⊕	⊕	●	⊕
Periodontal / Peri-implant defects	⊕	⊕	⊕	⊕	⊕
Alveolar ridge reconstruction	⊕	⊕	⊕	●	⊕
Cystic defects / Apicoectomy	⊕	⊕	⊕	⊕ [2]	⊕

[1] Internal Sinus-Lift
[2] Small cystic defects

Guided tissue regeneration

	OSGIDE®
Origin	Porcine Collagen
Resorbable	Yes
Barrier Function	16 weeks
Biological Origin	Yes
Size	15 × 20 mm 25 × 30 mm 30 × 40 mm
Special Features	Very easy handling
Guided Bone Regeneration	⊕
Guided Tissue Regeneration	⊕
Implantology	⊕
Periodontology	⊕
Horizontal & Vertical augmentation	⊕
Orientation	Smooth side toward the gingiva

⊕ Recommended ⊕⊕ Advantageous in this indication ⊕ Possible ● Not recommended

Note: The above mentioned recommendations are not exhaustive. Please refer to the instructions for use for detailed information on indications.

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THE SAFE & FAST WAY TO NEW BONE

CERASORB® PORTFOLIO

Pure-phase β-tricalcalcium phosphate in bone regeneration

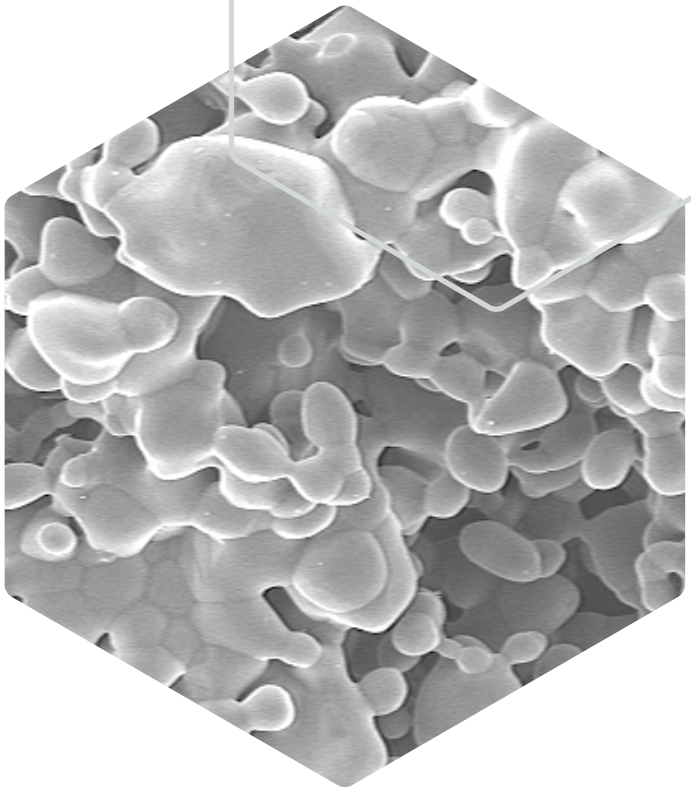
CERASORB® is the safe and fast way to new bone. The product system provides bone and tissue regeneration materials for this purpose and is completely remodeled in the context of bone regeneration. In virtue of its chemical and material properties it provides high safety and high success rates in defect restoration.

- Clinically proven to be equivalent to autologous bone
- Convenient and comprehensive product types including granules, paste and easy to hydrate and place **CERASORB® Foam**
- Unlike many other Biomaterials, **CERASORB® M** fully remodels into patient bone using the highest purity β-TCP worldwide

CERASORB® M

Resorbable, pure-phase β-tricalcium phosphate

CERASORB® M has an interconnecting, open multi-porosity with micro-, meso- and macropores (5 µm – 500 µm) and an overall porosity of 65%. The granules are polygonal and irregularly shaped, which enhances intercalation and interlocking in the defect cavity. Micro movements that can delay the healing process are avoided.



Features & Benefits

- Safe, non-organic regeneration material
- Transformation to natural bone tissue
- Normal trabecular bone structure
- Easier handling of complications
- Reproducible clinical results
- Full resorption, no material remnants
- Clinically proven to be equivalent to autologous bone

Indications

- Sinus lift
- Socket and ridge preservation
- Peri-implant defects
- Bone augmentation

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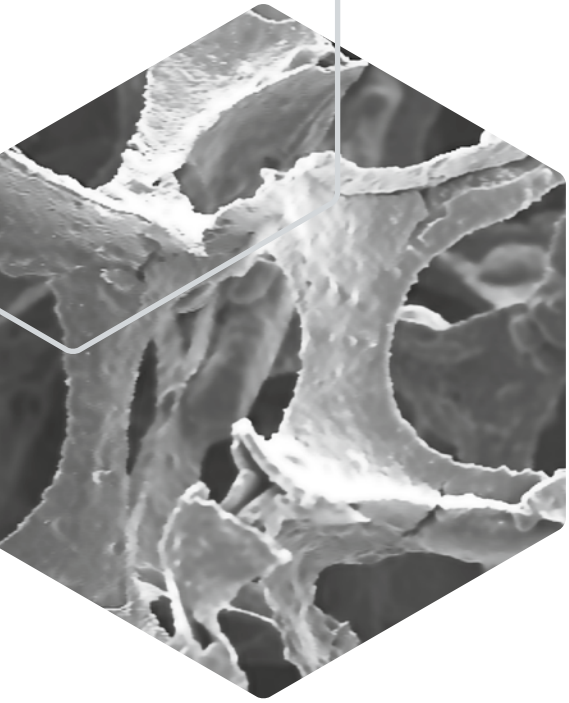


CERASORB® Bioactive

Resorbable, pure-phase β-tricalcium phosphate matrix + 4% silicate

CERASORB® Bioactive is an non-organic, porous, biocompatible ceramic material made for filling, bridging and reconstruction of bone defects and augmentation of the atrophied alveolar ridge. This fully resorbable material provides the potential to increase bioactivity due to reinforced silicate formulation.

Features & Benefits

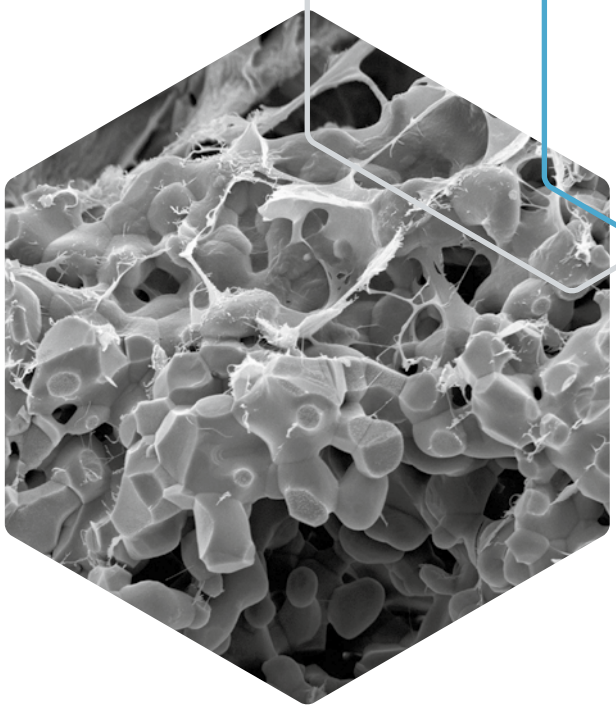
- Reinforced silicate β-TCP formulation of non-organic origin
- Natural resorption and bone remodeling within 4-6 months
- 75 % interconnected porosity provides increased surface area for all important tissue and cell structures to remodel into host bone
- Irregular shaped granules enhance mechanical stability and minimizes micro-movement
- Radiopaque provides ease of visualization during the remodeling process

Indications

- Sinus lift
- Socket and ridge preservation
- Periodontal defects
- Horizontal and vertical augmentation
- Implant bed preparation
- Alveolar ridge reconstruction
- Cystic defects

CERASORB® Foam

Resorbable, pure-phase β-tricalcium phosphate + collagen matrix



CERASORB® Foam is a highly porous combined material made of porcine collagen and pure-phase β-TCP granules of different sizes and densities. The collagen matrix embeds the granules and stabilizes them by virtue of its fibrous structure.

This special combination of the two materials provides a high-volume stability after degradation of the more rapidly remodeled collagen.

Features & Benefits

- Easy to use
- Provides an open-cell structure that closely resembles human bone
- Radiopaque
- Designed to provide long-term stability and maintenance of volume and aesthetic contour
- Quick hydration and conforms to defect site once hydrated

Indications

- Socket and ridge preservation
- Sinus lift
- Implant bed preparation
- Small bone and periodontal defects
- Alveolar ridge reconstruction
- Cystic defects

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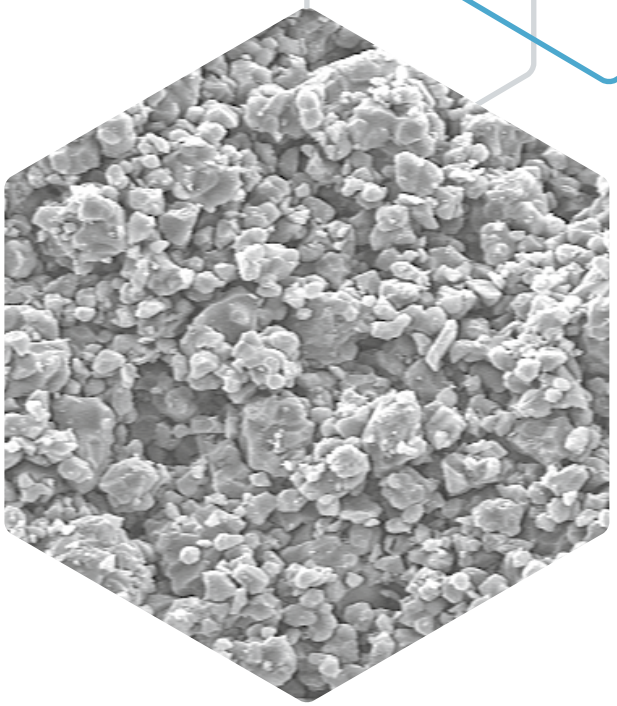
CERASORB® Paste

Resorbable β-tricalcium phosphate paste + hyaluronic acid matrix



Fast and ready to use are the attributes that describe **CERASORB® Paste**. Very fine **CERASORB®** granules are suspended in a hyaluronic acid matrix.

This special, patented combination optimally supports the physiological healing process. Hyaluronic acid is a natural component of the extracellular matrix in human beings. Results from recent studies show that it promotes the differentiation of stem cells into osteoblasts, and in addition has anti-inflammatory action.

Features & Benefits

- Hyaluronic acid and pure-phase, grinded β-TCP granules
- Better cell proliferation supports soft-tissue and bone healing contributing to faster repair of minor bone defects
- Easy handling and filling of defect
- Configurations of 0.5 cc and 1.0 cc syringes

Indications

- Internal sinus lift
- Small bone and periodontal defects
- Small cystic defects

Designed for Osseointegration

Hydroxyapatite (HA) is an essential component for bone augmentation.
The key element of new bone formation is always the healthy underlying bone or the environment that provides sufficient stability.

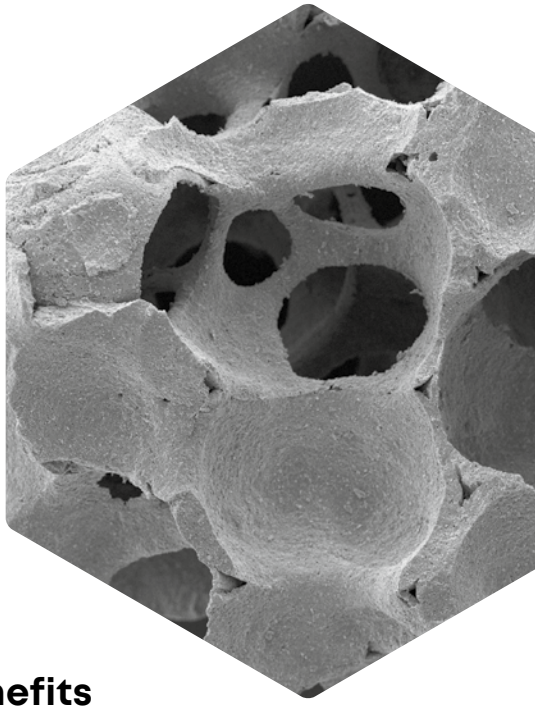
HA has been used for several decades as a bone replacement material in the entire skeletal system. The calcium phosphate plays an important role in the formation of calcified tissue.

OSBONE®

Non-organic spongious bone substitute

OSBONE® is a non-organic, open-cell cancellous bone substitute for filling bone defects and augmentation of the atrophied alveolar ridge. This volume-stable product provides a perfect scaffolding for rapid and maximally stable bone replacement.

OSBONE® osseointegrates with new host bone providing a stable implant bed. Pre-clinical studies confirm **OSBONE®** bone cell attachment is superior to leading biologic (animal origin) products.



Features & Benefits

- Safe, non-organic bone replacement material
- Scaffold principle with 80% porosity
- Immediate start of osseointegration, which is completed after approx. 3-6 months

Indications

- Sinus lift
- Socket and ridge preservation
- Peri-implant defects
- Horizontal and vertical augmentation

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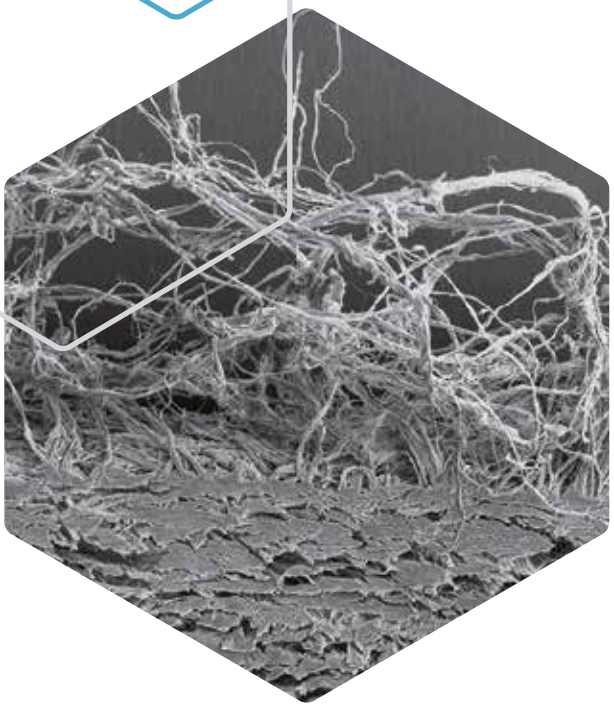


OSGIDE®

Dental barrier membrane

OSGIDE® is the membrane of choice for all dental professionals. It is designed with easy handling and guided tissue regeneration capacities in mind.

OSGIDE® provides excellent healing support and promotes selective tissue communication, thus increasing the bone formation.

Features & Benefits

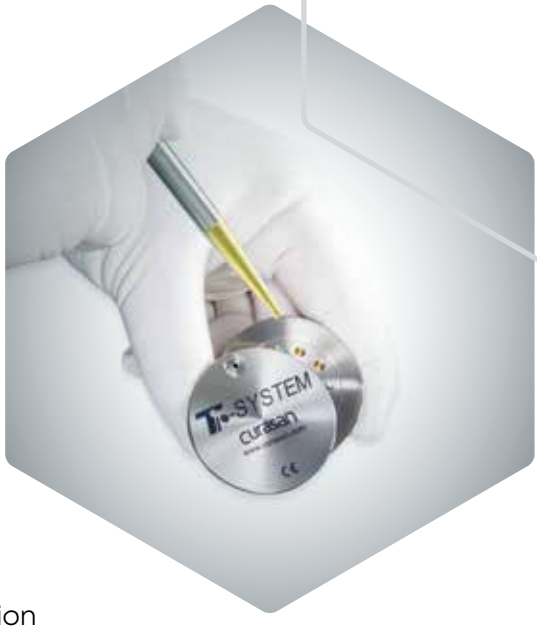
- Exceptional handling characteristics
- Easy to stretch and suture
- Supports formation of new blood vessels
- Hydration within seconds

Indications

- Guided tissue regeneration (GTR)
- Periodontal defects
- Socket preservation
- Protection of the Schneiderian membrane during sinus lift procedure

Ti-SYSTEM

Non-resorbable pin fixation system



Ti-SYSTEM offers a convenient solution for safe, fast and easy fixation of foils and membranes for bone augmentation surgery – as well as their safe, fast and easy removal. The titanium pins assure a reliable positioning and fixation of the membranes and foils.

The Ti-SYSTEM includes pins, instrument and the Steribox, which is used for storage and sterilization as well as for easier pick-up of the pins with the setting instrument and is an important part of the set.
All parts of the Ti-SYSTEM can be ordered individually.

Features & Benefits

- Pin fixation and revision instrumentation
- All parts available separately
- 3 mm pins for normal bone conditions
- 5 mm pins for soft bone conditions

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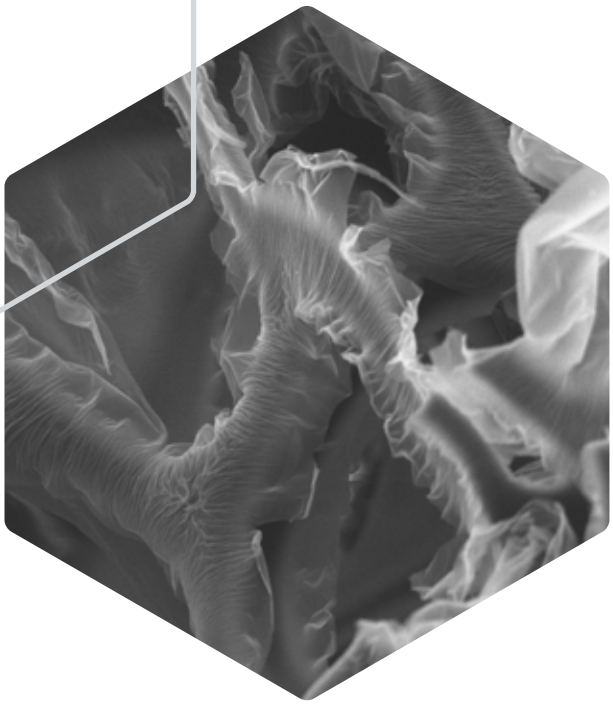

stypro®

Resorbable, hemostatic gelatin sponge

stypro® is an absorbable, topical hemostatic sponge. The porcine gelatin sponge accelerates clot formation by enhancing platelet aggregation. The blood components interact with the enlarged surface of the sponge and the secretions of the wound are soaked through the porous structure. **stypro®** provides a safe, effective and comfortable platform for hemostasis, control of blood coagulation, wound management, tissue repair and natural wound healing.

Features & Benefits

- Easy handling – quick hemostatic effect
- Optimal porosity and interconnective structure
- Fully resorbable within 4-6 weeks
- High absorption capacity

Indications

- Oral surgery (dry or saturated)
- Tooth extractions
- Root extractions and removal of cysts, tumours or extraction of impacted teeth
- Surgical procedures where a small sponge size is beneficial

Bone regeneration materials

CERASORB® M

Resorbable, pure-phase β-tricalcium phosphate

Ref. No.	Size	Content	Pack Size
9000 100 505	150 – 500 µm	0.5 cc	5
9000 200 505	500 – 1000 µm	0.5 cc	5
9000 201 001	500 – 1000 µm	1.0 cc	1
9000 201 005	500 – 1000 µm	1.0 cc	5
9000 202 005	500 – 1000 µm	2.0 cc	5
9000 300 505	1000 – 2000 µm	0.5 cc	5
9000 301 005	1000 – 2000 µm	1.0 cc	5
9000 302 005	1000 – 2000 µm	2.0 cc	5

CERASORB® Bioactive

Resorbable, pure-phase β-tricalcium phosphate matrix + 4% silicate

Ref. No.	Size	Content	Pack Size
9370 000 021	250-1000 µm	0.5 cc	5
9370 000 022	1000-2000 µm	1.0 cc	5

CERASORB® Foam

Resorbable, pure-phase β-tricalcium phosphate + collagen matrix

Ref. No.	Size	Content	Pack Size
9000 060 054	12 × 12 × 4 mm	0.5 cc	3
9000 060 124	25 × 12 × 4 mm	1.2 cc	1
9000 060 254	25 × 25 × 4 mm	2.5 cc	1

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CERASORB® Paste
Resorbable β-tricalcium phosphate paste + hyaluronic acid matrix

Ref. No.	Size	Content	Pack Size
9001 304 041	≈ 2 g / cm^3	0.5 cc	1
9001 304 051	≈ 2 g / cm^3	1.0 cc	1

Bone integration materials

OSBONE®
Non-organic spongious bone substitute

Ref. No.	Size	Content	Pack Size
9000 800 255	250 – 1000 µm	0.25 cc	5
9000 800 505	250 – 1000 µm	0.5 cc	5
9000 801 005	250 – 1000 µm	1.0 cc	5
9000 901 005	1000 – 2000 µm	1.0 cc	5

Membranes

OSGIDE®
Dental barrier membrane

Ref. No.	Size	Content	Pack Size
9000 701 520	15 × 20 mm	pc	1
9000 702 530	25 × 30 mm	pc	1
9000 703 040	30 × 40 mm	pc	1

Fixation system

Ti-SYSTEM Titanium pins

Non-resorbable pin fixation system

Ref. No.	Size	Content	Pack Size
9000 810 107	3 mm	pcs	10
9000 810 109	5 mm	pcs	10

Ti-SYSTEM

Non-resorbable pin fixation system

Ti-SYSTEM - Titanium Top

Ref. No.	Content	Pack Size
9000 810 101	pc	1

Ti - SYSTEM - Tool holder

Ref. No.	Content	Pack Size
9000 810 103	pc	1

Ti-SYSTEM - Screwdriver

Ref. No.	Content	Pack Size
9000 810 104	pc	1

Steribox for 15 Pins

Ref. No.	Content	Pack Size
9000 810 105	pc	1

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Hemostyptic

stypro®
Resorbable, hemostatic gelatine sponge

stypro® Cubus			
Ref. No.	**Size**	**Content**	**Pack Size**
9310 000 030	10 × 10 × 10 mm	pcs	30

stypro® Strip			
Ref. No.	**Size**	**Content**	**Pack Size**
9360 000 005	50 × 10 × 10 mm	pcs	5

Legend

Dosage form	Foam	Granules	Instrument set
	Membranes	Paste	
Application field	Hemostasis		

NOTES

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Head office
curasan AG
Lindigstraße 4
63801 Kleinostheim
Germany
P +49 6027 40900-0
F +49 6027 40900-29
M info@curasan.com
W www.curasan.com

Postal address
curasan AG
Ernst-Wiss-Straße 18
65933 Frankfurt am Main
Germany

curasan Inc.
1768 Heritage Center Drive,
Suite 204, Wake Forest, NC 27587
United States of America
P +1 919 941 9770
F +1 919 941 9775
www.curasaninc.com

Distribution partner

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