# synergy

BONE GRAFTING MATERIALS

## TISSUE GUIDED REGENERATION SOLUTIONS

# Collagen membrane, type 1 bovine collagen resorbable dressing

It is obtained from biocompatible and biodegradable materials.
Made of type I bovine collagen, maximum purity.
Sterilized with gamma-radiation at 25kGy.

## instructions

- To use in the Guided Bone Regeneration (GBR) and Guided Tissue Regeneration (GTR) fields.
- Alveolar crest reconstruction for prosthetic treatments.
- Space coverage, when implant is placed after dental extraction.
- As a barrier when lifting the maxillary sinus floor.

Minimum validated resorption time: 70 days.

**Collagen fiber interlinking:**

FE-SEM Σigma 3.24KX.

ⓘ NO PREHYDRATION REQUIRED

## properties

- Easy to handle.
- Excellent mechanical properties.
- Optimal permeability, elasticity, plasticity and stability.
- Great adherence to cavity, does not slide.
- 0.3 to 0.4 mm controlled thickness.

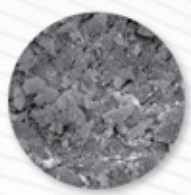
| SIZE | REFERENCE |
|---|---|
| 15 x 20 mm | SYMC-21-03 |
| 20 x 30 mm | SYMC-23-03 |
| 30 x 40 mm | SYMC-34-03 |

# Synthetic bone filling/granules

Synergy synthetic bone filling is an absorbable bioceramic with interconnected pores which supports newly formed bone, thanks to its bone conducting capacity and chemical interchangeability with live tissues. It is characterized by its high *in vivo* solubility. All process phases are manufactured in a laboratory-controlled environment, assuring the absence of potential immunological risks.

## instructions

- Periodontal defects.
- Maxillary sinus lift.
- Socket filling post-dental extraction.
- Apicoectomy.
- Cysts.
- Alveolar ridge augmentation.



According to ASTM international standard, a 95% phase purity is mandatory.
**Synergy´s** 98% supersedes it.

| | GRANULOMETRY | QTY | REFERENCE |
|---|---|---|---|
| SYNTHETIC | 350 to 840 µm | 0,5g | SYN MS-840 |
| | 840 to 2000 µm | 0,5g | SYN MS-2000 |

## properties

- Successful solution in bone regeneration.
- Homogeneous, uniform-quality synthetic material.
- No potential immunological or infectious risks.

synergy | BONE GRAFTING MATERIALS

# Anorganic Bovine Matrix

Synergy bone matrix implant, made of deproteinized bovine bone, is indicated as a successful solution to ease and improve bone regeneration. Thanks to its natural origin, it is chemically and structurally comparable to mineralized human bone (natural nanocristaline apatite). The highly purified osteoconductive mineral structures is obtained from natural bovine bone through a manufacturing process that guaranties a 96% phase purity in strictly compliance with international security standards. Sterilized with gamma-radiation at 25kGy.


## instructions

- Bone defect treatment and bone augmentation in general.
- Alveolar ridge augmentation/reconstruction.
- Socket filling post-dental extraction.
- Implantology: implant site preparation, bone defect filling and maxillary sinus lift.
- Periodontology: bone defect filling, membrane support during guided tissue regeneration.

## properties

- The high volume of interconnected pores benefits new bone formation and growth.
- Benefits osteoblasts bonding and posterior osteoid formation.
- Benefits osteogenesis, thanks to its osteoconductive property.
- No potential immunological or infectious risks.
- Cortical and cancellous presentation.
- Adheres to instrumentation, adopts to the cavity shape.

# **Granule** presentation

Specific products for different instructions: oral implantology, maxillofacial surgery, orthopedic and neurosurgery.

| | GRANULOMETRY | QTY | REFERENCE |
|---|---|---|---|
| CANCELLOUS | 350-840/840-2000µm | 0,25g | ALPE-840 / ALPE-2000 |
| | 350-840/840-2000µm | 0,50g | SYN CE-840 / SYN CE-2000 |
| | 350-840/840-2000µm | 1,00g | ESP1G-840 / ESP1G-2000 |
| | 350-840/840-2000µm | 2,00g | HU2G-840 / HU2G-2000 |
| CORTICAL | 350-840/840-2000µm | 0,25g | 025COR-840 / 025COR-2000 |
| | 350-840/840-2000µm | 0,50g | COR-840 / COR-2000 |
| TRAUMA | 840 a 2000µm | 1 x 5cc | 5CCBO |
| | 840 a 2000µm | 2 x 5cc | 10CCBO |
| | 1000 a 4000µm | 1 x 5cc | HU5CC |
| | 1000 a 4000µm | 2 x 5cc | HU10CC |

CANCELLOUS

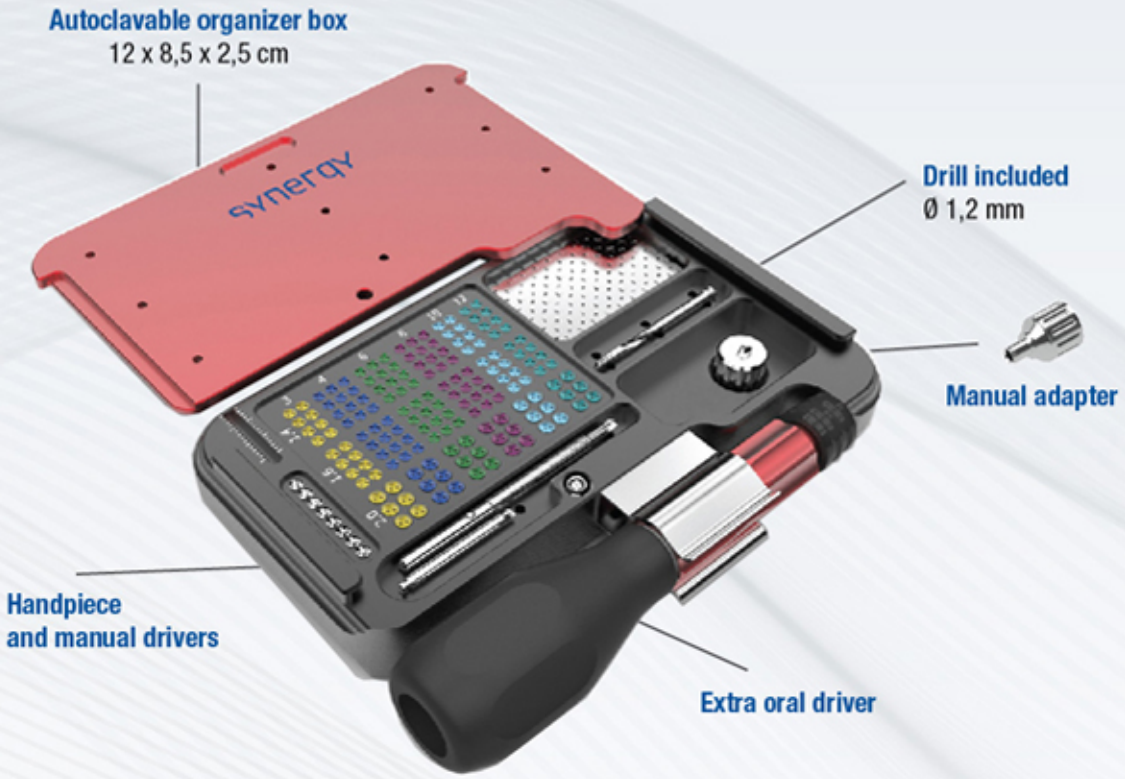

# Moldable **putty** bovine matrix

Putty obtained from bovine natural bone matrix, combined with a mixture of moisturizers, binding agents and saline, to enhance ease of use and flexibility during surgical application. Moldable putty allows manipulation without waste, is hygroscopic, highly malleable and easy to mold. Eliminates the need for any preparation before placement. Superior performance resulting from multiple physical and chemical interactions.

| | GRANULOMETRY | QTY | REFERENCE |
|---|---|---|---|
| CANCELLOUS | 350-840 µm | 1g | PUTTY-840-1 |
| | 350-840 µm | 2g | PUTTY-840-2 |

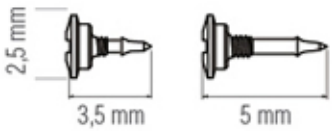
# SURGERY KIT
## fastening screws, tacks and titanium meshes

Autoclavable box with a smart organization system which makes surgery easier. Precise screwdriver allow quickly picking up screw and manually or mechanically safely moving it to the surgical site, to attach bone blocks, meshes or titanium plaques. It is also useful to store tacks, to attach membranes in guided bone regeneration.




## Tacks and applicator kit

Titanium anodized for mesh and membrane attachment.



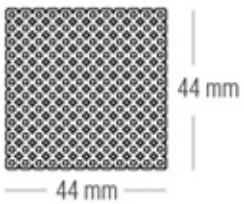

## Fastening screws

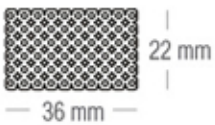
Titanium, self-tapping, polished anodized surface. Unique design for correct mesh and graft fixation.

| DIAMETER | LARGE (mm) | | | | |
|---|---|---|---|---|---|
| Ø 1,40 mm | 3 | 4 | - | - | - |
| Ø 1,60 mm | 3 | 4 | 6 | 10 | 12 |
| Ø 2,00 mm | - | 4 | 6 | - | 12 |

## Titanium meshes

For big grafting procedures. Pore size: Ø 1.4 mm. Polished surface. Non-traumatic edges.

# Lateral approach - Sinus lift KIT

Includes curette sequence. Non-traumatic drills with stoppers, to safely drill lateral wall with no sinus membrane damage.


**AUTOCLAVABLE ORGANIZER BOX**

**2** 6,0 and 8,0 mm **straight diamond drills.**

**2** 8,0 mm **round diamond drills for lateral window opening.**

**2** 6,0 and 8,0 mm **inactive tip drills for bone drilling.**

**2** 5,0 and 7,0 mm **diamond shaft disks for window expansion.**

**5** Ø 0,5 / 1,0 / 1,5 / 2,0 / 2,5 mm **stoppers to improve safety and protection.**

**4-curette sequence** for sinus remodeling.

# Bone expansion KIT

Instrumentation designed for corticotomies. Disks allow precise cuts in the bone and the spreading pins separate cortical bones, thus allowing increase of bone ridge and implant placement in very thin bones.


**AUTOCLAVABLE ORGANIZER BOX**

**3 spreading pins** with threaded adapters.

**3 hex digital drivers**.

**2** 7,0 and 9,0 mm **disk drills for handpiece.**

**1 ratchet wrench hex driver**.

**1** 4x4 mm **square ratchet wrench**.

# PRF System

Enhances PRF for: sinus membrane sealing, maxillary sinus lift, bone grafts, bloody area and gingival recessions sealing. • Reduces surgical and preparation times. • Simplifies simultaneous preparation of plugs and multiple rich plasma membranes.


**AUTOCLAVABLE KIT**

**Mixing bowl** for stick bone

**Tray with holes** for PRF placement

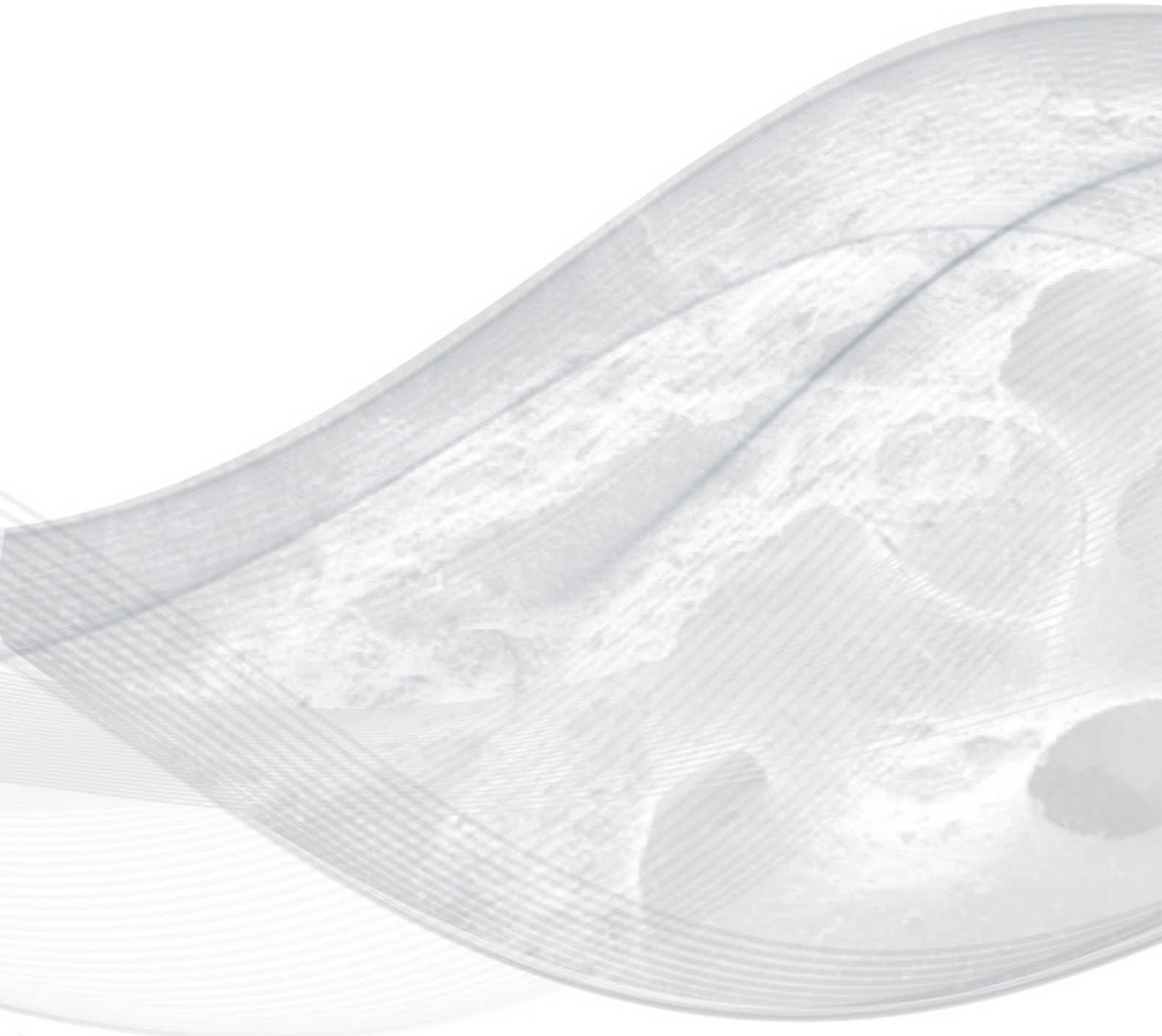
**Compactor** to build plugs

**Interior lid** to generate membranes

**Exterior lid** to put pressure on interior lid

synergy

BONE GRAFTING MATERIALS



**www.synergybiomedical.eu**

info@synergybiomedical.eu

Rev. 0/1 EN - 2019