

GTR

CENTURY

CENTURY-GTR
GUIDED TISSUE REGENERATION






The Structure of Regeneration

Nano-structured bio-mimetic hydroxyapatite

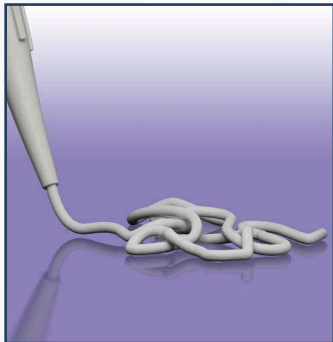
The C-Bone synthetic bone substitutes line is based on bio-mimetic and nano-structured hydroxyapatite. C-Bone hydroxyapatite is a calcium phosphate biomaterial that is very similar to the human bone structure, composition and size of nano-crystals. The Ca/P ratio of 1.67 is almost identical to that of human bone apatite. C-Bone is available in 4 different formats: dense granules, porous chips, injectable paste and moldable crunch, in a wide range of sizes.

C-Bone is a bio-mimetic bone substitute. Its high surface/volume ratio makes it an ideal scaffold for osteointegration and regeneration of bone defects. The highly porous and interconnected structure is ideally osteoconductive, promoting cellular colonization, nutrient exchange and an early vascularization.

Thanks to specific composition and nano-metric dimension of composing crystals, C-Bone bone substitutes are completely degraded by osteoclastic activity and physiologically remodeled into new vital bone tissue.

-  Complete biocompatibility
-  Highly porous and interconnected structure to support optimal osteoconduction
-  High surface/volume ratio for a better biological response
-  Excellent chemical-physical stability
-  Complete remodeling in physiological times

C-BONE



Injectable Paste

Injectable paste is composed of a high-density mixture of nano-crystals and micro-powders of nano-structured HA, in ready-to-use syringes with tip, in single or multiple packs.

C-Bone Injectable Paste

| | | |
|-------------------|-------------------------------------|----------------|
| CB0-PA0251 | HA injectable paste 0.25 cc | 1 syringe/box |
| CB0-PA0253 | HA injectable paste 0.25 cc | 3 syringes/box |
| CB0-PA0501 | HA injectable paste 0.5 cc with tip | 1 syringe/box |
| CB0-PA0503 | HA injectable paste 0.5 cc with tip | 3 syringes/box |
| CB0-PA1001 | HA injectable paste 1 cc with tip | 1 syringe/box |
| CB0-PA1003 | HA injectable paste 1 cc with tip | 3 syringes/box |



Dense Granules

Dense granules of nano-structured HA, with regular spherical shape with 500-1000 µm and 1-2 mm granulometry, in different volumes and in single or multiple packs.

C-Bone Dense Granules

| | | | | |
|-------------------|-------------------|------------|-------------|---------------|
| CB0-D0501 | HA dense granules | (0.5-1 mm) | 0.5cc-04 gr | 1 bottle/box |
| CB0-D0506 | HA dense granules | (0.5-1 mm) | 0.5cc-04 gr | 6 bottles/box |
| CB0-D1001 | HA dense granules | (0.5-1 mm) | 1cc-0.75 gr | 1 bottle/box |
| CB0-D1006 | HA dense granules | (0.5-1 mm) | 1cc-0.75 gr | 6 bottles/box |
| CB0-D2001 | HA dense granules | (0.5-1 mm) | 2cc-1.50 gr | 1 bottle/box |
| CB0-D2006 | HA dense granules | (0.5-1 mm) | 2cc-1.50 gr | 6 bottles/box |
| CB0-D4001 | HA dense granules | (0.5-1 mm) | 4cc-3.00 gr | 1 bottle/box |
| CB0-D4006 | HA dense granules | (0.5-1 mm) | 4cc-3.00 gr | 6 bottles/box |
| CB0-D20201 | HA dense granules | (1 -2 mm) | 2cc-1.50 gr | 1 bottle/box |
| CB0-D20501 | HA dense granules | (1 -2 mm) | 5cc-3.75 gr | 1 bottle/box |

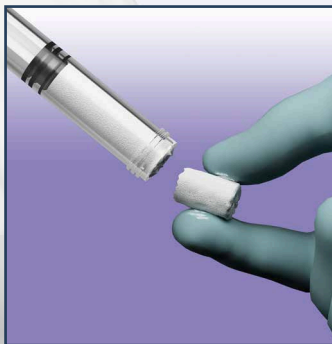


Macro-porosity
200-500 μm

Micro-porosity
2-3 μm

Nano-porosity
40-80 nm

GUIDED TISSUE REGENE- RATION



Moldable Crunch

Moldable crunch is composed of a high-density mixture of nano-crystals, micro-powders and micro-granules of nano-structured HA, in "open-mouth" syringes, in single or multiple packs.

C-Bone Moldable Crunch

| | | |
|-------------------|---------------------------|----------------|
| CB0-CR0501 | HA moldable crunch 0.5 cc | 1 syringe/box |
| CB0-CR0503 | HA moldable crunch 0.5 cc | 3 syringes/box |
| CB0-CR1001 | HA moldable crunch 1 cc | 1 syringe/box |
| CB0-CR1003 | HA moldable crunch 1 cc | 3 syringes/box |



Porous Granules

Porous granules of nano-structured HA, with an irregular shape similar to cancellous bone chips, with 500-1000 µm and 1-2 mm granulometry in different volumes and in single or multiple packs. Also available in filter cap syringes.

C-Bone Porous Granules

| | | | | |
|-------------------|----------------------------------------------------------------------|------------|-------------|----------------|
| CB0-P0501 | HA porous granules | (0.5-1 mm) | 0.5cc-04 gr | 1 bottle/box |
| CB0-P0506 | HA porous granules | (0.5-1 mm) | 0.5cc-04 gr | 6 bottles/box |
| CB0-P1001 | HA porous granules | (0.5-1 mm) | 1cc-0.75 gr | 1 bottle/box |
| CB0-P1006 | HA porous granules | (0.5-1 mm) | 1cc-0.75 gr | 6 bottles/box |
| CB0-P20101 | HA porous chips | (1 -2 mm) | 1cc-0.75 gr | 1 bottle/box |
| CB0-P20106 | HA porous chips | (1 -2 mm) | 1cc-0.75 gr | 6 bottles/box |
| CB0-P20201 | HA porous chips | (1 -2 mm) | 2cc-1.50 gr | 1 bottle/box |
| CB0-P20206 | HA porous chips | (1 -2 mm) | 2cc-1.50 gr | 6 bottles/box |
| CB0-P20501 | HA porous chips | (1 -2 mm) | 5cc-3.75 gr | 1 bottle/box |
| CB0-P050S1 | HA porous granules in a syringe with filter cap (0.5-1 mm) 0.5 cc | | | 1 syringe/box |
| CB0-P050S3 | HA porous granules in a syringe with filter cap (0.5-1 mm) 0.5 cc | | | 3 syringes/box |

The Natural Shield

Collagen membrane for GTR

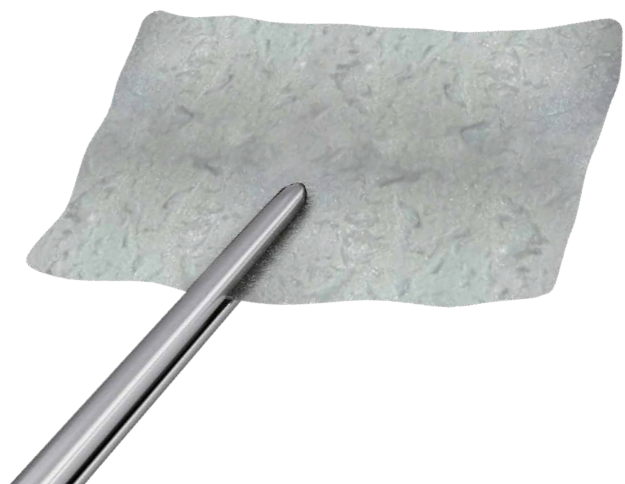
C-Membrane is an absorbable membrane used for shielding the implantation site from soft tissue infiltration, avoiding interference of non-osteogenic tissues with bone regeneration. It is made from highly pure type I atelocollagen of equine origin. It can be easily placed in site after bone grafting and requires no fixation. Its 3 dimensional structure adapts to the bone graft surface and provides a natural shield. It is consequently re-absorbed in about 4-6 weeks.

C-Membrane RS

C-Membrane RS presents a rough side characterized by less compact fibers with an increased surface area. Once positioned with the rough side in direct contact with the recipient's bone and the graft, it guarantees greater stability of the latter and of the membrane itself.

- Small post-extractive socket protection
- Sinus bone access coverage in sinus lift procedures
- Protection of peri-implant bone defects
- Closure of small tears of the sinus membrane
- Restoration of small bone dehiscences

- 4 to 6 weeks protection time
- Equine type I atelocollagen
- Totally safe and biocompatible
- Easy to apply
- Fully absorbable

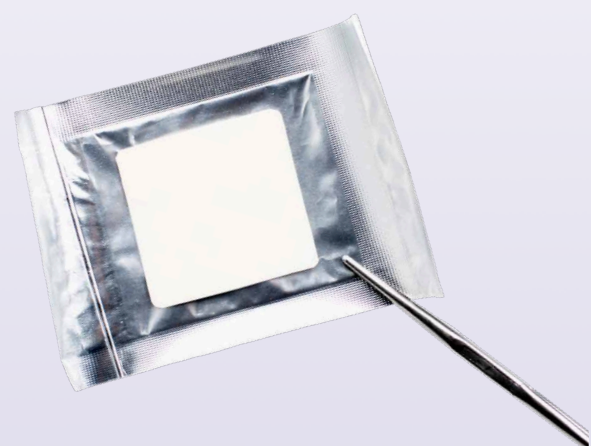


C-MEMBRANE

C-Membrane offers a wide range of different formats of collagen membranes, available in single and multiple packages.

Collagen Membranes

| | | |
|-------------------|------------------|--------|
| CTM-15201 | 15 x 20 x 0.2 mm | 1 pc |
| CTM-15206 | 15 x 20 x 0.2 mm | 6 pcs |
| CTM-152010 | 15 x 20 x 0.2 mm | 10 pcs |
| CTM-20201 | 20 x 20 x 0.2 mm | 1 pc |
| CTM-120206 | 20 x 20 x 0.2 mm | 6 pcs |
| CTM-202010 | 20 x 20 x 0.2 mm | 10 pcs |
| CTM-25251 | 25 x 25 x 0.2 mm | 1 pc |
| CTM-25256 | 25 x 25 x 0.2 mm | 6 pcs |
| CTM-252510 | 25 x 25 x 0.2 mm | 10 pcs |
| CTM-20301 | 20 x 30 x 0.2 mm | 1 pc |
| CTM-20306 | 20 x 30 x 0.2 mm | 6 pcs |
| CTM-203010 | 20 x 30 x 0.2 mm | 10 pcs |
| CTM-30401 | 30 x 40 x 0.2 mm | 1 pc |



Collagen Membranes RS (Rough Side)

| | | |
|-------------------|------------------|------|
| CTM-2020RS | 20 x 20 x 0.2 mm | 1 pc |
| CTM-2525RS | 25 x 25 x 0.2 mm | 1 pc |
| CTM-2030RS | 20 x 30 x 0.2 mm | 1 pc |
| CTM-3040RS | 30 x 40 x 0.2 mm | 1 pc |

1:1 Scale drawings



15 x 20 x 0.2 mm



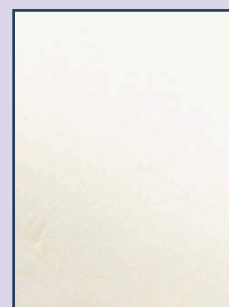
20 x 20 x 0.2 mm



25 x 25 x 0.2 mm



20 x 30 x 0.2 mm



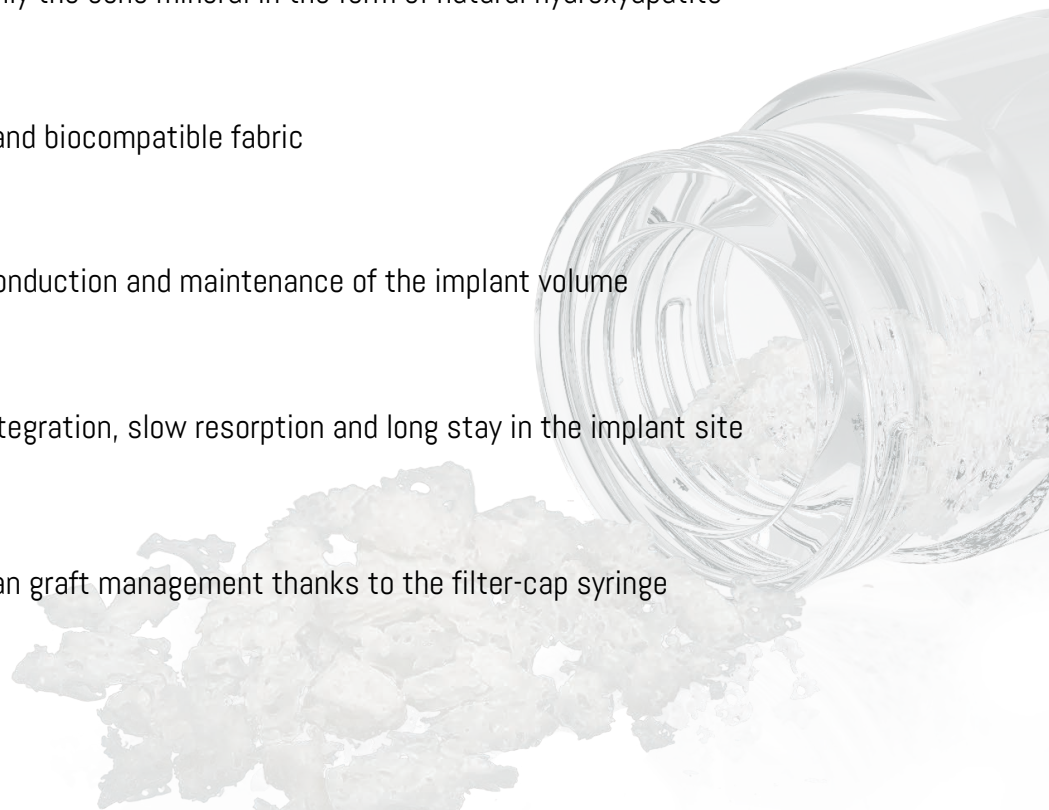
30 x 40 x 0.2 mm

The Biocompatible Tissue Substitute

Natural bone hydroxyapatite

C-Bone X is the line of natural bone substitutes of equine origin developed through the EstRem process (Esterification Cell-Removal Technology). This innovative “tissue processing” allows to treat all connective tissues of animal origin and obtain totally biocompatible tissue substitutes, preserving the biological characteristics fundamental for the regeneration process.

Its excellent osteoconductive properties allow the formation of new vascularized bone tissue between the spaces of its porous structure and the intergranular ones, allowing a rapid and complete osseointegration of the grafts.



- Elimination of all organic components

- Preservation of only the bone mineral in the form of natural hydroxyapatite

- Completely safe and biocompatible fabric

- Excellent osteoconduction and maintenance of the implant volume

- Excellent bone integration, slow resorption and long stay in the implant site

- Practical and clean graft management thanks to the filter-cap syringe

Indications

C-Bone X, by virtue of the slow reabsorption of natural hydroxyapatite crystals, is indicated in all those cases where the resorption of the graft is to be limited or delayed to maintain its volume over time in a stable manner.

- Breast lifts
- Small and large bone increases also in association with autologous grafts, to limit their resorption
- Filling of extraction sockets

C-Bone X is available in a wide range of formats, in single and multiple packs.

C-BONE X



Porous Granules (0.5-1 mm)

Apatite cancellous granules with 500-1000 µm granulometry, available in different volumes and in single or multiple packs.

C-Bone X Porous Granules (0.5-1 mm)

| | | | | |
|-----------------|-----------------------------|------------|--------|-------|
| CXA-S001 | Apatite cancellous granules | (0.5-1 mm) | 0.5 cc | 1 pc |
| CXA-S006 | Apatite cancellous granules | (0.5-1 mm) | 0.5 cc | 6 pcs |
| CXA-S011 | Apatite cancellous granules | (0.5-1 mm) | 1.0 cc | 1 pc |
| CXA-S016 | Apatite cancellous granules | (0.5-1 mm) | 1.0 cc | 6 pcs |
| CXA-S021 | Apatite cancellous granules | (0.5-1 mm) | 2.0 cc | 1 pc |
| CXA-S026 | Apatite cancellous granules | (0.5-1 mm) | 2.0 cc | 6 pcs |
| CXA-S041 | Apatite cancellous granules | (0.5-1 mm) | 4.0 cc | 1 pc |



ANIMAL ORIGIN BONE SUB- STITUTE

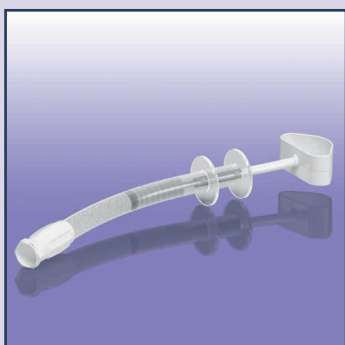


C-Bone X Porous Granules (1-2 mm)

| | | | | |
|-----------------|-----------------------------|----------|--------|-------|
| CXA-S111 | Apatite cancellous granules | (1-2 mm) | 1.0 cc | 1 pc |
| CXA-S116 | Apatite cancellous granules | (1-2 mm) | 1.0 cc | 6 pcs |
| CXA-S121 | Apatite cancellous granules | (1-2 mm) | 2.0 cc | 1 pc |
| CXA-S126 | Apatite cancellous granules | (1-2 mm) | 2.0 cc | 6 pcs |
| CXA-S141 | Apatite cancellous granules | (1-2 mm) | 4.0 cc | 1 pc |

Porous Granules (1-2 mm)

Apatite cancellous granules with 1-2 mm granulometry, available in different volumes and in single or multiple packs.



C-Bone X Porous Granules in filter cap syringe

| | | |
|------------------|------------------------------------------------------------------|----------------|
| CXA-S001S | Apatite cancellous granules in filter cap syr. (0.5-1 mm) 0.5 cc | 1 syringe/box |
| CXA-S003S | Apatite cancellous granules in filter cap syr. (0.5-1 mm) 0.5 cc | 3 syringes/box |

Porous Granules in filter cap syringe

Apatite cancellous granules with 500-1000 µm granulometry in syringe, available in single or multiple packs.

English version



REV.01 / 07-2021



C-TECH
CENTURY IMPLANT TECHNOLOGIES

Via Cesare Battisti n. 2 - 40123, Bologna - ITALY
Tel. +39 051 6661817 - info@c-tech-implant.com
www.c-tech-implant.com