



ZIMMER BIOMET

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Biologic Solutions

PlatFORM™ CM

Osteoconductive Collagen
Mineral Bone Graft Matrix

PlatFORM CM is a bone graft substitute that offers a wide range of characteristics similar to human bone.

PlatFORM CM: Osteoconductive Collagen Mineral Bone Graft Matrix

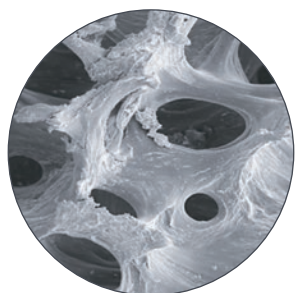
Highly Purified Carbonate Apatite (CA) Mineral

- Superior to β -tricalciumphosphate (β -TCP) and hydroxyapatite (HA) as a bioresorbable bone graft substitute¹
- Derived from all natural sources—both the collagen and mineral content are derived from bovine sources
- Resorption, remodeling and structure analogous to human bone²

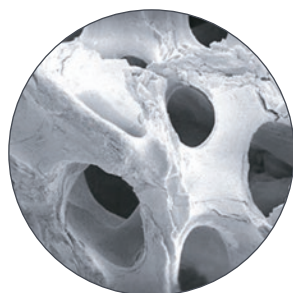
Highly Purified Type I Collagen

- Favorable influence on cellular infiltration and protein binding³
- Resorbed and remodeled naturally in bone through normal metabolic pathways⁴

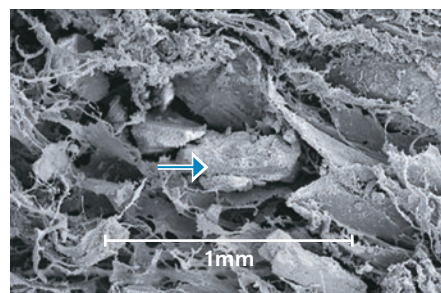




Human processed bone at 50x magnification



CA mineral at 50x magnification



PlatFORM CM Block (blue arrow depicting CA particle; particle size range 0.25mm–1.25mm) at 50x magnification

Porosity and Resorption

- PlatFORM CM Putty is 55% carbonate apatite bone mineral and 45% collagen
- PlatFORM CM Block and Strip are 80% carbonate apatite bone mineral and 20% collagen
- Pore sizes in the range of 150µm–500µm are optimal for interface activity, bone ingrowth and implant resorption⁵
- The majority of the pores in the mineral content fall within the optimal range for all formulations⁵
- Resorption and remodeling profiles are more similar to normal human bone
- Absorbs fluids, such as bone marrow aspirate, to deliver the complete bone growth triad—the patients’ own osteogenic and osteoinductive cells in a highly osteoconductive matrix
- Rehydrate with bone marrow aspirate (BMA) to desired handling (approximately a 1:1 ratio)

Flexible, Malleable and Compression Resistant

DESCRIPTION (LENGTH × WIDTH × HEIGHT)	PART NUMBER
PlatFORM CM Putty, 2cc	CM68902
PlatFORM CM Putty, 5cc	CM68905
PlatFORM CM Putty, 10cc	CM68910
PlatFORM Block, 5cc, 1/box (6.25cm × 2cm × 0.4cm)	CM25505
PlatFORM Block, 10cc, 1/box (6.25cm × 2cm × 0.8cm)	CM25510
PlatFORM Blocks, 20cc, 2/box (6.25cm × 2cm × 0.8cm)	CM25520
PlatFORM Strip, 5cc, 1/box, (12.5cm × 1cm × 0.4cm)	CM46405
PlatFORM Strip, 10cc, 1/box, (12.5cm × 2cm × 0.4cm)	CM46410
PlatFORM Strips, 20cc, 2/box, (12.5cm × 2cm × 0.4cm)	CM46420

References:

1. Kanayama K, Sriarj W, Shimokawa H, Ohya K, Doi Y, Shibutani T. Osteoclast and osteoblast activities on carbonate apatite plates in cell cultures. *J Biomater Appl.* 2011; (26):435–436.
2. Matsuura A, Jubo T, Doi K, Hayashi K, Morita K, Toyota R, Hayashi H, Hirata I, Okazaki M, and Akagawa Y. Bone formation ability of carbonate apatite-collagen scaffolds with different carbonate contents. *Dental Materials Journal.* 2009;(2):234–242.
3. Geiger M, Li, R.H., Friess, W. Collagen sponges for bone regeneration with rhBMP-2. *Advanced Drug Delivery Reviews.* 2003;(55):1613–1629.
4. Li ST. Biologic Biomaterials: Tissue-derived biomaterials (collagen). In: Bronzino JD, ed. *Biomedical Engineering Handbook, 2nd ed.* Boca Raton, FL: CRC Press; 2000.
5. Vaccaro A. The role of the osteoconductive scaffold in synthetic bone graft. *Orthopedic News.* Vol. 25 No. 5/Supplement; 2002;571–578.
6. Data on file at Collagen Matrix.

800.447.3625/zimmerbiomet.com



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PlatFORM™ CM is manufactured by Collagen Matrix, Inc. Rx Only.

1256.1-US-en-REV0417