dsm-firmenich

ColOSSIS™ & MacroSet™

Medical-grade bone void filler

Inject. Set. Drill. Heal.

Backed by years of clinical use and rigorous quality standards

Biomimetic, injectable putties engineered for predictable bone remodeling. ColOSSIS™ and MacroSet™ cure in situ to fill gaps and augment provisional hardware.* Mixable with bone marrow aspirate (BMA), blood, or saline. Improved bone remodeling when mixed with BMA as compared to saline. Preclinical data showed up to 50% more bone growth than leading alternatives.[1,2] Excellent handling, settable and drillable, washout resistance with physical properties that mimic cancellous bone aiming for confidence in every procedure.[1–3]

Perfect for orthopedic applications

Orthopedics

Indicated to fill bony voids or gaps of the skeletal system (i.e. extremities and pelvis).

These defects may be surgically created or osseous defects created from traumatic injury to the bone. The Calcium Phosphate Cement is indicated only for bony voids or gaps that are not intrinsic to the stability of the bony structure. The Calcium Phosphate Cement cured in situ provides an open void/gap filler that can augment provisional hard-ware (e.g. K-Wires, plates, screws) to help support bone fragments during the surgical procedure. The cured cement acts only as a temporary support media and is not intended to provide structural support during the healing process. The Calcium Phosphate Cement resorbs and is replaced by bone during the healing process.

Product feature	Benefits[1,2,*]
Preparation	• Self-contained mixing and delivery system • Decreased procedure time • Improved mixing
Biomimetic (BMA & Autologous fluid)	• Mix with saline, blood, or BMA-based on surgeon preference • Improved bone remodeling
Improved handling	• Decreased surgery time • Increased precision and ease of application • Versatile delivery (injectable or putty form)
Temporary support for hardware	• Drillable • Facilitates reduction of the trauma site
Expansion	• Creates a 'press fit' with bone due to material expansion while curing[4] • Decreases the chance of material migration
Interconnected pores	• Improved bone remodeling • Compressive strength and porosity are comparable to cancellous bone[4]

About the Biomedical division of dsm-firmenich
As innovators in nutrition, health, and beauty, we reinvent, manufacture, and combine vital nutrients, flavors, and fragrances for the world's growing population to thrive.

In the Biomedical division, we serve as a committed partner in driving sustainable innovation in healthcare, from spark to solution. Our biomaterial products, customized solutions and expert services are recognized for their unmatched quality, reliability, and performance worldwide. Together, we bring progress to life every day, everywhere, for billions of people.

To learn more, visit **dsm-firmenich.com/biomedical**.

Visit dsm-firmenich.com/biomedical to request your sample today!

Product Disclaimer Evaluation of the biological safety and functional performance of a material produced by dsm-firmenich in a final, finished medical device remains the responsibility of the legal medical device manufacturer.

1. Data on file at Biomedical.
2. At 1 year, when hydrated with BMA, ColOSSIS and MacroSet showed a significant difference in bone area when compared to Stryker's Hydroset, as demonstrated in a sheep femoral defect model, n=5. Pre-clinical animal test data is not necessarily indicative of clinical performance.
3. No material washed away upon irrigation following 2 minutes of setting in benchtop testing. Pre-clinical benchtop test data are not necessarily indicative of clinical performance.
4. After setting. Pre-clinical benchtop test data are not necessarily indicative of clinical performance.
*Acts only as a temporary support media and is not intended to provide structural support during the healing process.
Note: screws should be anchored in native bone and not in cement only.

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