

Carbonated Apatite

Medical-grade porcine-derived anorganic bone matrix



Native topography. Natural integration.

**Half a million devices each year,
crafted to one standard of excellence**

dsm-firmenich's carbonated apatite bioceramics uniquely preserve the native cancellous texture – aiming to support cell attachment, bone formation, and natural integration for predictable healing. Our proprietary process supports material biocompatibility and remodeling performance,¹ trusted by leading manufacturers worldwide.

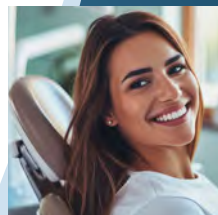
With versatile handling and consistent results, choose from granules for precise placement or composite options combined with medical-grade collagen and resorbable polymers for customized performance. Flexible formats offer seamless integration across orthopedic and dental applications.

**Perfect for orthopedic
& dental applications**



Orthopedics

Bone fusion, bone integration, spinal repair, spinal fusion, knee repair, ligament/tendon repair, sternal closure, cyst and tumor removal



Dental

Socket preservation, ridge augmentation, sinus lift, peri-implant defect repair, guided bone regeneration, alveolar ridge reconstruction, endodontic applications

Every detail is engineered for performance and purity—here's how our bioceramics deliver where it matters most¹

Challenge	Our solution
Regulatory and quality assurance	Manufactured under ISO 13485 in FDA-registered, audited facilities; meets ASTM F1581 standards for anorganic bone
Predictable bone remodeling	Carbonated apatite engineered aiming for fast and efficient bone remodeling, supporting reliable osseointegration and regeneration
Surface topography advantage	Preserves native cancellous texture, aiming to promote cellular attachment and osteoconduction
Material performance	Particle size controlled within 0.25-1.00 mm for consistent mechanical strength and remodeling kinetics
Portfolio versatility	Available in granules and blocks for orthopedic and dental indications including fusion, ridge augmentation, sinus lift, and trauma repair
Scale and reliability	Backed by proven manufacturing capacity and global supply chain for consistent availability

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.

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