Matriform® Si Strip

Silicated Synthetic Bone Graft

XTANT MEDICAL

Predictably Pure

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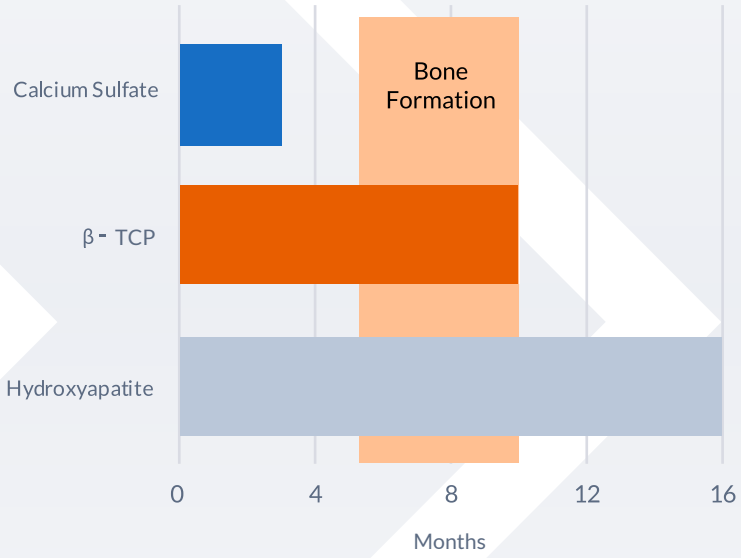
Silicated Synthetic Bone Graft

Matriform Si was developed to resemble the composition and porous structure of natural human bone. Comprised of 96% pure phase β-TCP granules, 4% silicate and collagen, Matriform Si provides the ideal biomimetic scaffold for spinal fusion procedures. The flexible strip offers excellent handling and shape memory ensuring direct contact with the surface of healthy bone.

- **99% pure phase β-TCP**[1] - resorbs as new bone forms in a physiologic time frame
- **Homogenous incorporation of silicate** - enhances new bone formation by creating a favorable surface for osteoblast attachment[2]
- **Total porosity ≥ 75%** - ultraporous, interconnected structure supports bone remodeling from both outer and inner pore surfaces
- **Multiporous matrix** - provides the ideal micro- and macro-environment for nutrient diffusion, cell and protein binding, and osteoblast differentiation
- **Optimal primary particle size (<15 µm)** - enhances mechanical stability and prevents premature dissolution
- **Fluid retention** - readily absorbs and retains osteogenic cells from autologous BMA

Resorption Profile of Pure Phase β-TCP vs. Calcium Sulfate & HA



Evidence suggests the composition of Matriform promotes bone formation in parallel to graft resorption[3,4]

Matriform Strip offers flexible handling with compression resistance

Item #	Description	Dimensions
449050	Matriform Si Strip 50mm	50x25x4mm (5.0cc)
449100	Matriform Si Strip 100mm	100x25x4mm (10.0cc)

888.886.9354
CS@xtantmedical.com
xtantmedical.com

1. ICDD (International Center for Diffraction Data, Pennsylvania, USA) reference standard since 2005.
2. Knabe, et al. Effect of silicon-doped calcium phosphate bone grafting materials on bone regeneration and osteogenic marker expression after implantation in the ovine scapula. Journal of Biomedical Materials Research Part B: Applied Biomaterials. 2017; 107
3. Daentzer, et al. The use of Cerasorb Foam in spinal surgery. OUP 2016; 4: 242–248
4. Breil-Wirth A., Jerosch J. Application of Cerasorb Foam in orthopaedics – a prospective trial. OUP, 2014;10: 608–615.

FM-C-MRK-97 (B) 3/20