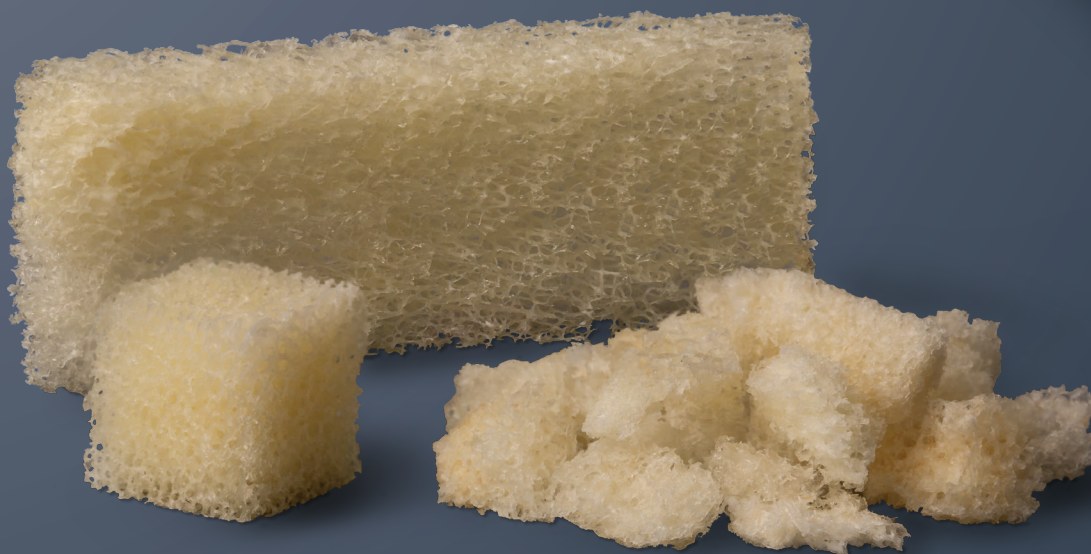




# OsteoSponge<sup>®</sup>

Demineralized Cancellous Allograft



The ORIGINAL 100% DBM

# OsteoSponge<sup>®</sup>

## Demineralized Cancellous Allograft

### Clinical Advantage

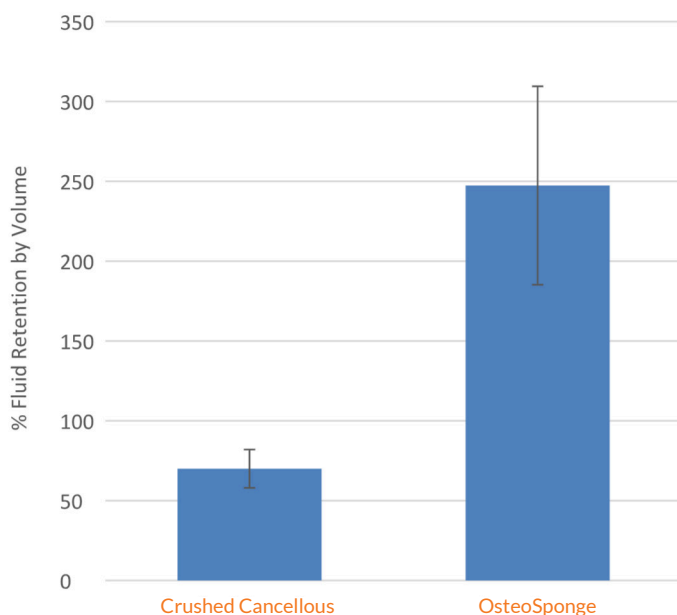
Osteosponge is a patented form of demineralized bone matrix (DBM) made from 100% bone. Derived from cancellous bone, OsteoSponge provides a natural scaffold for cellular ingrowth and exposes bone-growth-inducing proteins to the healing environment. The malleable properties of OsteoSponge enable it to fill and conform to irregular bony defects.

### Features & Benefits

- **Osteoinductive potential** – patented demineralization process optimizes the preservation of inherent growth factors that aid in cell differentiation<sup>1</sup>
- **Osteoconductive** – interconnected porosity provides a scaffold for cellular adhesion and vascular ingrowth
- **Fluid retention** – porous matrix allows for adsorption of osteogenic cells from autologous BMA
- **Compressible handling** – compressible sponge readily conforms to fill a defect, maximizing direct bone to graft contact
- **Sterility assurance level (SAL) 10<sup>-6</sup>** – terminal sterilization ensures the highest level of patient safety
- **Proven clinical history** – efficacy is supported by multiple peer reviewed publications

### Superior fluid retention over traditional bone chips

OsteoSponge absorbed **3 times more** bone marrow aspirate (BMA) than traditional crushed cancellous in an *in vitro* study.<sup>1</sup>



### Benefits of BMA absorption<sup>2,3</sup>

- May lead to the migration and attachment of more cells
- Increases the concentration of growth factors at the injury site
- Allows for the distribution of nutrients
- Creates an osteogenic environment



## OsteoSponge Strip



### Item #

109621  
109622  
109631  
109632  
109633  
109634  
109635  
109636  
109637  
109638  
109640  
109642

### Product Name

OsteoSponge Strip 50 x 5 x 5mm  
OsteoSponge Strip 50 x 7 x 5mm  
OsteoSponge Strip 20 x 14 x 5mm  
OsteoSponge Strip 20 x 14 x 7mm  
OsteoSponge Strip 26 x 19 x 7mm  
OsteoSponge Strip 30 x 10 x 7mm  
OsteoSponge Strip 50 x 10 x 7mm  
OsteoSponge Strip 50 x 20 x 7mm  
OsteoSponge Strip 26 x 19 x 7mm - 2 Per pack  
OsteoSponge Strip 26 x 19 x 7mm - 4 Per pack  
OsteoSponge Strip 40 x 15 x 5mm  
OsteoSponge Strip 40 x 15 x 2mm

## OsteoSponge Block



### Item #

109608  
109610  
109612  
109614

### Product Name

OsteoSponge Block 8mm  
OsteoSponge Block 10mm  
OsteoSponge Block 12mm  
OsteoSponge Block 14mm

## OsteoSponge Disc



### Item #

109501  
109502  
109503

### Product Name

OsteoSponge Disc, 10 mm  
OsteoSponge Disc, 12 mm  
OsteoSponge Disc, 14 mm

## OsteoSponge Filler



### Item #

109410  
109425  
109550  
109510  
109515  
109530

### Product Name

OsteoSponge Filler 1.0cc 4-10 mm Chips  
OsteoSponge Filler 2.5cc 4-10 mm Chips  
OsteoSponge Filler 5.0cc 4-10 mm Chips  
OsteoSponge Filler 10.0cc 4-10 mm Chips  
OsteoSponge Filler 15.0cc 4-10 mm Chips  
OsteoSponge Filler 30.0cc 4-10 mm Chips

## OsteoSponge Filler Fine



### Item #

109210  
109225  
109250  
109310  
109315  
109330

### Product Name

OsteoSponge Filler Fine 1.0cc 1-4 mm Chips  
OsteoSponge Filler Fine 2.5cc 1-4 mm Chips  
OsteoSponge Filler Fine 5.0cc 1-4 mm Chips  
OsteoSponge Filler Fine 10.0cc 1-4 mm Chips  
OsteoSponge Filler Fine 15.0cc 1-4 mm Chips  
OsteoSponge Filler Fine 30.0cc 1-4 mm Chips



### Item #

T076-0116

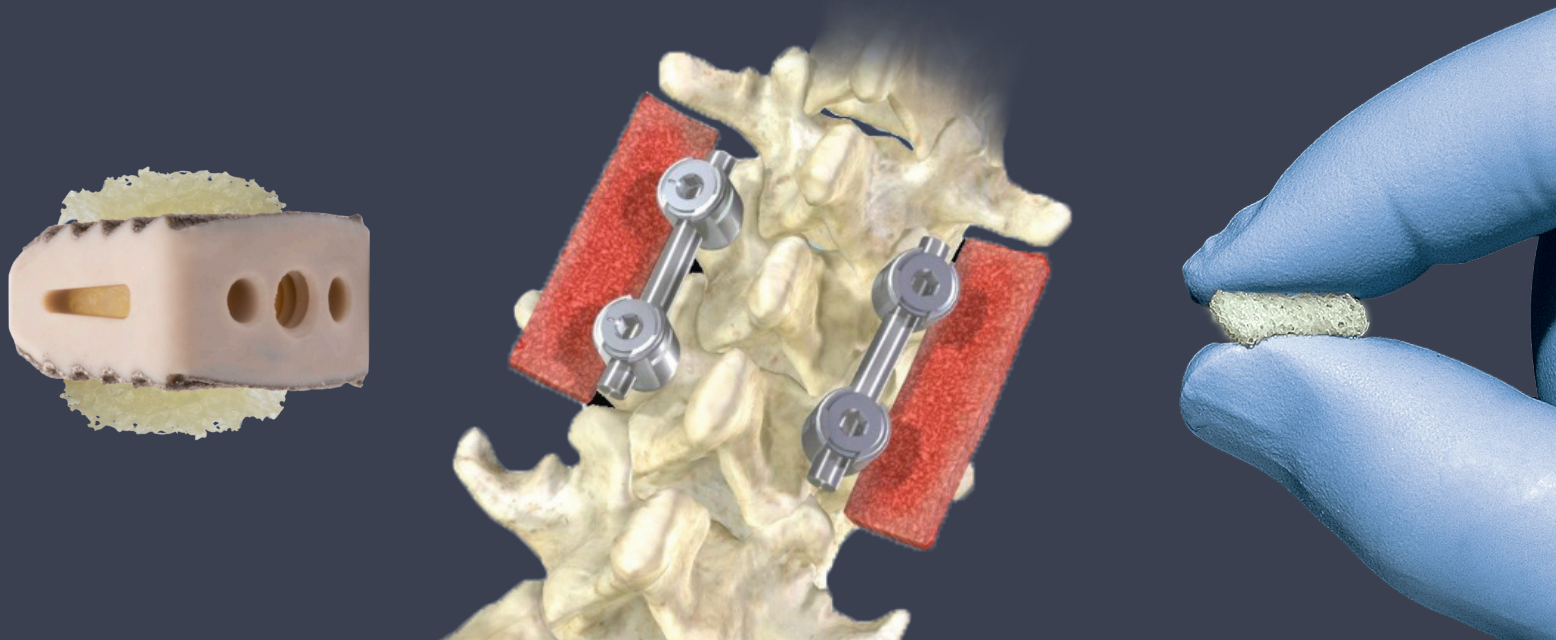
### Product Name

Bone Marrow Aspiration Needle 11G x 15cm

## Fit For Fusion

OsteoSponge offers the ideal fit for use within Xtant Irix® and Calix® interbodies and facilitates precise placement in posterolateral spine applications.<sup>4</sup>

- **Shape memory characteristics** help to maximize surface area for bone contact with the graft material.
- **Intact single piece** of cancellous bone resists migration.



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<sup>1</sup> Data on file at Xtant Medical

<sup>2</sup> Block, J.E. The role and effectiveness of bone marrow in osseous regeneration. *Medical Hypotheses*. 65(4): 740-7, 2005

<sup>3</sup> McLain, R.F., et al. Aspiration of osteoprogenitor cells for augmenting spinal fusion... *Journal of Bone and Joint Surgery*. 87(12): 2655-2661, 2005.

<sup>4</sup> 510(k) Numbers: K171567, K162944, K170119, K171075

OsteoSponge is a registered trademark of Bacterin International.

OsteoSponge is covered by one or more of the following U.S. Patents: 8,574,825; 8,992,964

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