



fiber**FUSE**[™]

Demineralized Bone Matrix

mtfbiologics



ORTHOFIX[®]

fiberFUSE™ Demineralized Bone Matrix is an allograft comprised of a mixture of cancellous bone and demineralized cortical bone. This combination creates a natural scaffold for revascularization, cellular ingrowth and new bone formation.¹

Cancellous Matrix:

- Osteoconductive porous scaffold to allow ingrowth of host vasculature, osteoblasts and MSCs¹
- Large trabecular surface area encourages revascularization and incorporation at the recipient site¹
- Osteogenesis under the influence of local cytokines and growth factors²



Cortical Fibers:

- Osteoinductivity stimulates healing as the endogenous growth factors recruit cells from the host bed into the graft site
- High surface area of the elongated fibers create a cell-friendly collagen framework for cell attachment and proliferation¹
- The self-entanglement of the fibers result in a putty like handling



Verified Osteoinductivity:

Osteoinductivity of demineralized bone matrices can vary depending on tissue processing methods.^{3,4,5} fiberFUSE DBM is aseptically processed, retaining natural growth factor activity in cortical bone. MTF Biologics' processing methods limit exposure of harsh chemicals and avoids terminal sterilization, which is known to have a negative impact to endogenous growth factors and biologic activity.³ The demineralized cortical fibers in fiberFUSE DBM are consistently osteoinductive when assessed in an in vivo osteoinductivity model.⁵

Features and Key Advantages:

Easy Preparation



- Rapid rehydration
- Readily wicks with rehydration solution (saline, blood and bone marrow aspirate)
- Ready to use in under two minutes

Excellent Handling



- 100% bone, no carrier added
- Cohesive, moldable, packable
- Versatile delivery

Graft Expansion



- Volume increases when hydrated
- Conforms to anatomy at the surgical site
- Resists irrigation for graft containment

The Handling Properties of a Putty without Compromising Bone Content

MTF Biologics is the exclusive processor of fiberFUSE DBM. The proprietary, validated processing methods retain the natural growth factors within the cortical fibers. The fibers interconnect, creating cohesive handling with no carrier; 100% natural, 100% bone. MTF Biologics set strict donor acceptance criteria and processing standards to ensure safe and quality allografts for your patients.



Order Number	Description	Sizes
420601	fiberFUSE™ Demineralized Bone Matrix	1cc
420602	fiberFUSE™ Demineralized Bone Matrix	2.5cc
420605	fiberFUSE™ Demineralized Bone Matrix	5cc
420610	fiberFUSE™ Demineralized Bone Matrix	10cc

Order Number	Description	Sizes
21-5000	Bone Marrow Aspiration Needle Kit	8 Gauge
21-5011	Bone Marrow Aspiration Needle Kit	11 Gauge

References:

1. Roberts, TT and Rosenbaum, AJ. (2012). Bone grafts, bone substitutes and orthobiologics; The bridge between basic science and clinical advancements in fracture healing. *Organogenesis*, 8(4), pp. 114-124
2. Melvin, J. (2008). Bone grafts and bone graft substitutes. *OrthopaedicsOne - The Orthopaedic Knowledge Network* [Internet] Available from: <<https://www.orthopaedicsone.com/x/uYBF>> [March 5, 2019]
3. Takikawa, S, et al. (2003). Comparative evaluation of the osteoinductivity two formulations of human demineralized bone matrix. *J Biomed Mater Res A*, 65(1), pp. 37-42
4. DePaula, CA, et al. (2005). Effects of hydrogen peroxide cleaning procedures on bone graft Osteoinductivity and mechanical properties. *Cell and Tissue Banking*, 6, pp. 287-298
5. Data on File (MTF Biologics)

To find electronic instructions for use with indications, precautions and warnings for each of these products go to: www.Orthofix.com/IFU

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