



 fiber**FUSE**[™]

mtfbiologics[®] |  **ORTHOFIX**[®]

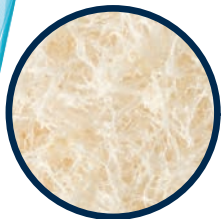


fiberFUSE™ allografts consist of mineralized cancellous bone and demineralized cortical fibers, providing an ideal matrix for bone healing. A natural solution that is 100% bone, available in both moldable and strip formulations.



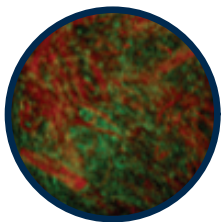
CANCELLOUS MATRIX

Osteoconductive porous scaffold to allow ingrowth of host vasculature, osteoblasts and MSCs.¹



CORTICAL FIBERS

Demineralized cortical fibers provide inherent osteogenic growth factors important in the bone healing process. The self-entanglement of the fibers results in a pliable, cohesive graft.



CELL-FRIENDLY STRUCTURE

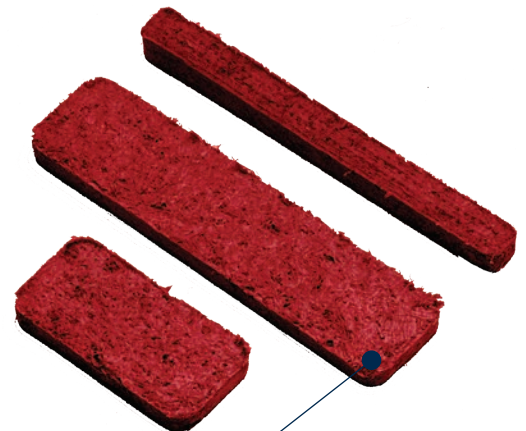
High surface area of the elongated fibers create a cell-friendly collagen framework for cell attachment and proliferation, which aid in new bone formation.

Versatile Formulations



ADVANCED

Graft expansion, hydrated
Moldable handling
Resists irrigation



STRIP

Rapid rehydration
Maintains shape
Contours to host bone

The fiberFUSE Difference

Exclusively processed by MTF Biologics, stringent donor selection criteria and validated processing methods ensure a consistent graft.



- Large Recovery Network
- <2% Donors Accepted
- Aseptic processing

Aseptic processing methods preserve the inherent biologic properties. The key growth factors in the bone healing cascade that contribute to new bone formation are present within the demineralized cortical fibers of fiberFUSE.^{2,3}

CELLULAR INGROWTH

FGF-1 PDGF-BB
IGF-1

REVASCULARIZATION

FGF-1 VEGF

NEW BONE FORMATION

BMP-2 BMP-7
TGF- β IGF-1



Osteoinductive Performance

VERIFIED OSTEOINDUCTIVITY

Not all bone matrices are the same; donor variability and processing methods play a significant role in osteoinductive performance.

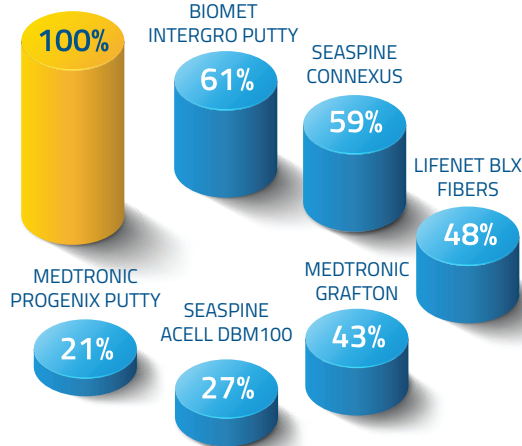
When compared to competitor DBMs, the cortical fibers in fiberFUSE allografts demonstrated consistent osteoinductivity.³

IMPACT OF TERMINAL STERILIZATION

Terminal sterilization can be detrimental to the biomechanical properties of bone.⁴ It has been shown to negatively impact osteoinductive potential by approximately 50%.^{5,6}

fiberFUSE allografts are aseptically processed to retain these natural properties of the grafts.

MTF FIBERS



ASEPTICALLY PROCESSED
CORTICAL MATRIX



TERMINALLY STERILIZED
CORTICAL MATRIX

Please visit Orthofix.com/IFU for full information on indications for use, contraindications, warnings, precautions, adverse reactions information and sterilization.

MTF Biologics

fiberFUSE Advanced

420601 | 1cc

420602 | 2.5cc

420605 | 5cc

420610 | 10cc

fiberFUSE Strip

420701 | 1x10cm

420705 | 2.5x5cm

420710 | 2.5x10cm

Orthofix

Bone Marrow Aspiration Needle

21-5000 | 8 gauge

21-5011 | 11 gauge

O-GENESIS™ Graft Delivery System

35-6000SP | Graft Delivery System

35-6001SP | Cannula and Caps

References:

1. Roberts TT and Rosenbaum AI. Bone grafts, bone substitutes and orthobiologics; The bridge between basic science and clinical advancements in fracture healing. 2012. *Organogenesis* 8 (114-124).
2. McAllister, M. et al. *Characterization of fiberFUSE™ Allografts*, FF-2107 White Paper; 2018.
3. McAllister, M. and Semler, E. *A Comparative Study of the Osteoinductivity of the Demineralized Cortical Fibers in fiberFUSE™ Allografts and Other Commercially Available DBMs*, FF-2108 White Paper 2019.
4. Singh, R et al. Radiation sterilization of tissue allografts: A review. *World Journal of Radiology*, 2016 April 28; 8(4): 355-369.
5. Takikawa, S, et al. Comparative evaluation of the osteoinductivity two formulations of human demineralized bone matrix 2003. *J Biomed Mater Res A*, 65(1), pp. 37-42
6. Data on file with MTF Biologics.

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