



# PliaFX® Flo

## Flowable Demineralized Fibers

### Clinical Overview

PliaFX Flo is a demineralized bone matrix (DBM) comprised of optimally demineralized<sup>1-3,7</sup> fibers with surface characteristics that set the standard<sup>4-6,7</sup> for osseointegration, combined with a glycerol carrier.<sup>7</sup> The graft flows directly from the syringe for precise delivery with no intraoperative preparation required.<sup>7</sup>

### Applications

Bony voids or gaps of the skeletal system (e.g., the extremities, spine and pelvis) that are not intrinsic to the stability of the bony structure; Surgically created osseous defects or osseous defects from traumatic injury to the bone.<sup>7</sup>

### Features & Benefits

- **Precise Delivery:** Packaged in a sterile syringe, allowing delivery directly to the surgical site.<sup>7</sup>
- **Optimized Handling:** Fibers interlock to provide a moldable, intact graft that easily transfers to the surgical site, conforms to the surgical site and resists migration.<sup>4,7</sup>
- **Osteoconductive:** Large surface area and interconnected network of fibers provide a scaffold that promotes cell attachment and spreading.<sup>4,8,7</sup>
- **New Bone Formation Potential:** Fibers were readily mineralized as early as 6 weeks when cultured *in vitro* indicating that the growth factors in the graft can promote bone-forming cells to mineralize the graft given the appropriate microenvironment.<sup>9,7</sup>
- **Safety:** Sterilized using proprietary Allowash XG® technology which provides the security of medical device-grade sterility without compromising the biochemical or biomechanical properties of the graft.<sup>4,7,10,7</sup>
- **Customizable:** Easily mixes with biomaterials such as autograft or allograft.<sup>11,12,7</sup>
- **Convenient:** Ambient storage and no rehydration required.<sup>7</sup>



Interlocking fibers provide moldable, cohesive graft that resists migration.<sup>4,7</sup>



Osteoconductive scaffold promotes cell spreading at 7 days.<sup>4,7</sup>



Graft easily mixes with biomaterials such as autograft or allograft.<sup>11,12,7</sup>

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North America  
1.888.847.7831  
orders@lifenethealth.org

Europe  
+ 43 1 375002710  
eu\_orders@lifenethealth.eu

Latin America □ Asia □ Middle East  
1.757.464.4761 ext. 2000  
internat.orders@lifenethealth.org

LifeNetHealth.org  
LifeNetHealth.eu



PliaFX Flo		
Ambient Storage*		
Volume	Order Code	Shelf Life
0.5 cc	BL-2200-00	3 years
1 cc	BL-2200-01	3 years
2.5 cc	BL-2200-02	3 years
5 cc	BL-2200-05	3 years
10 cc	BL-2200-10	3 years

\*While ambient room temperature has not been defined by regulatory bodies, LifeNet Health would recommend storage at 2°C to 37°C with excursions of less than 24 hours up to 40°C. If an excursion outside this range occurs, please contact LifeNet Health.

Instructions for use available at [LifeNetHealth.org/IFU](https://www.lifenethealth.org/IFU)

## References:

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3. Mott DA, Mailhot J, Cuenin MF, Sharawy M, Borke J. Enhancement of Osteoblast Proliferation In Vitro by Selective Enrichment of Demineralized Freeze-Dried Bone Allograft With Specific Growth Factors. J Oral Implantol. 2002;28(2):57-66.
4. J. B. McLean, N. Carter, P. Sohoni, and M. A. Moore, 'Cell Attachment and Osteoinductive Properties of Tissue Engineered, Demineralized Bone Fibers for Bone Void Filling Applications', Clinical Implementation of Bone Regeneration and Maintenance. Intech Open, Feb. 10, 2021.
5. Rodriguez RU, Kemper N, Breathwaite E, et al. Demineralized Bone Matrix Fibers Formable as General and Custom 3D Printed Mold-based Implants for Promoting Bone Regeneration. Biofabrication. 2016;8(3):03500.
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7. LifeNet Health. Instructions for Use. 63-0411.
8. Murphy MB, Suzuki RK, Sand TT, et al. Short Term Culture of Mesenchymal Stem Cells With Commercial Osteoconductive Carriers Provides Unique Insights Into Biocompatibility. J Clin. Med. 2013; 2,49-66; doi:10.3390/jcm2030049
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11. LifeNet Health. Clinician Perspective Video, Dr. Branch, PliaFX. EX-2104.
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<sup>†</sup>Pre-clinical test data/results may not necessarily be indicative of human clinical performance (or outcomes).

Important Information: Prior to use, refer to the instructions for use supplied with the device(s) for indications, contraindications, side effects, warnings and precautions.



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