



PliaFX® Flo

Flowable Demineralized Fibers

Clinical Overview

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

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.⁷

Features & Benefits

- **Precise Delivery:** Packaged in a sterile syringe, allowing delivery directly to the surgical site.⁷
- **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.^{4,†}
- **Osteoconductive:** Large surface area and interconnected network of fibers provide a scaffold that promotes cell attachment and spreading.^{4,8,†}
- **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.^{9,†}
- **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.^{4,7,10,†}
- **Customizable:** Easily mixes with biomaterials such as autograft or allograft.^{11,12,†}
- **Convenient:** Ambient storage and no rehydration required.⁷



Interlocking fibers provide moldable, cohesive graft that resists migration.^{4,†}



Osteoconductive scaffold promotes cell spreading at 7 days.^{4,†}



Graft easily mixes with biomaterials such as autograft or allograft.^{11,12,†}

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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

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.
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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.
6. Boyan BD, Lotz EM, Schwartz Z. Roughness and Hydrophilicity as Osteogenic Biomimetic Surface Properties. *Tissue Eng Part A.* 2017 Dec;23(23-24):1479-1489. doi: 10.1089/ten.tea.207.0048.
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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12. LifeNet Health. Clinician Perspective Video, Dr. Yoon, PliaFX. EX-2039.

[†]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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