

Move the needle in spinal fusion: with our open fibrillar matrix



The MagnetOs™ Flex Matrix provides our pro-healing NeedleGrip™ surface technology with immediate access to cancellous bone: for a more predictable fusion.

MagnetOs Flex Matrix is an open matrix bone graft with a unique fibrillar - and flexible - structure that optimizes the effect of our established NeedleGrip surface technology. By exposing the NeedleGrip surface to the surrounding biological environment, MagnetOs promotes bone growth even in soft tissue for a more predictable fusion.*†‡1-4

This product absorbs *up to ten times* as much BMA as a leading competitor's bone graft, and it's extremely convenient to use with excellent granule retention.⁴

Flexible, practical, versatile – and highly wickable

It's flexible

MagnetOs Flex Matrix features an open fibrillar - and more flexible - design comparable to native collagen, rather than the cross-linked, sheet-like collagen morphology often seen in other bone grafts. The open fibrillar collagen matrix exposes the NeedleGrip surface to the biological environment - promoting bone growth even in soft tissue for a more predictable fusion.*†‡-4

It's highly wickable

The product has extremely high wickability. In fact, it absorbs up to ten times as much BMA as a leading competitor's bone graft - providing more cells to support bone growth.⁴

It's practical & versatile

Because MagnetOs Flex Matrix features the fibrillar structure of natural collagen, it retains its strength and shape while remaining flexible. It's convenient to handle. It isn't brittle when dry; nor does it break up and become soggy when wet.⁴

All of which makes this product incredibly versatile. Simply tear it, mold it, and fold it any way you need to fill irregularly shaped bone defects, gaps, and voids.

It has a high granule-volume percentage

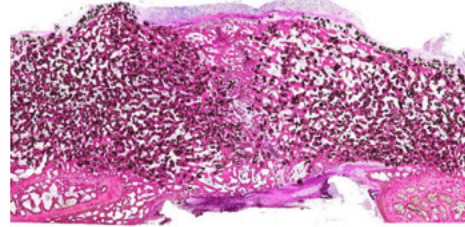
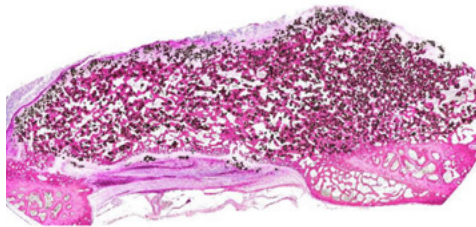
MagnetOs Flex Matrix also carries and retains a higher volume percentage of granules compared to a leading competitor's bone graft.⁴ Wet cohesivity is designed into this bone graft so that granules don't shed easily, even when hydrated.

Propagation in action

Histology revealed significant graft resorption complemented by abundant bone tissue and continuous bony bridging between transverse processes resulting in spinal fusion in all implants treated

with MagnetOs Flex Matrix. Conversely, continuous bony bridging was not observed and therefore not considered fused for any of the implants treated with i-FACTOR® Putty.*§⁴

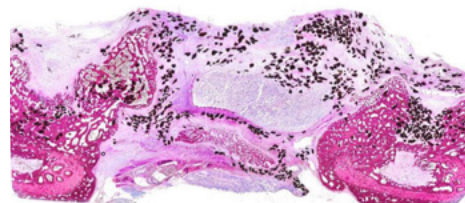
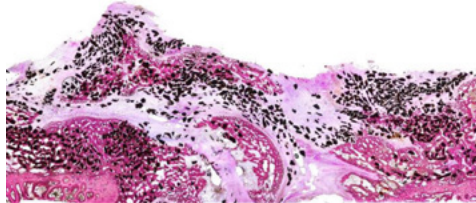
MagnetOs Flex Matrix



Results after 12 weeks:

New bone formation throughout the graft with MagnetOs

i-Factor™ Putty



The two bone grafts were implanted in six sheep models (n=3 per group) as standalone grafts in instrumented posterolateral lumbar fusions.

Product code	Size	Dimensions (mm)
703-056-US	Small	> 28x28x3
703-057-US	Medium	> 48x35x3
703-058-US	Large	> 96x35x3
703-059-US	Extra Large	> 96x35x4.5

So, are you ready to move the needle?

Scan to learn more about MagnetOs Flex Matrix or contact us at:

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References: 1. Van Dijk, et al. eCM. 2021;41:756-73. 2. Duan, et al. eCM. 2019;37:60-73. 3. Van Dijk, et al. Clin Spine Surg. 2020;33(6):E276-E287. 4. Data on File.

*Results from in vitro or in vivo laboratory testing may not be predictive of clinical experience in humans. For important safety and intended use information please visit kurosbio.com.

†MagnetOs is not cleared by the FDA as an osteoinductive bone graft.

‡MagnetOs has been proven to generate more predictable fusions than two commercially available alternatives in an ovine model of posterolateral fusion.

§i-FACTOR Putty is indicated at one level from C3-C4 to C6-C7. See i-FACTOR IFU for full details.

Indications for use

MagnetOs Flex Matrix is intended to fill bony voids or gaps of the skeletal system, i.e., posterolateral spine. In the posterolateral spine, MagnetOs Flex Matrix must be hydrated with bone marrow aspirate (BMA) and used as an extender to autograft bone. The osseous defects may be surgically created or the result of traumatic injury to the bone and are not intrinsic to the stability of the bony structure. MagnetOs Flex Matrix resorbs and is replaced with bone during the healing process.

Contraindications

Use of MagnetOs Flex Matrix synthetic bone void filler is CONTRAINDICATED in the presence of one or more of the following clinical situations: MagnetOs Flex Matrix must not be used in patients with a history of anaphylaxis, history of multiple allergies, known allergies to bovine collagen, or who are being treated for desensitization to meat products because this product contains bovine collagen; To treat conditions in which general bone grafting is not advisable; In conditions where the surgical site may be subjected to excessive impact or stresses, including those beyond the load strength of fixation hardware (e.g., defect site stabilization is not possible); In case of significant vascular impairment proximal to the graft site; In case of severe metabolic or systemic bone disorders that affect bone or wound healing; In case of acute or chronic infections in the operated area (e.g., soft tissue infections, osteomyelitis); In case of pre-existing calcium metabolism disorder (e.g., hypercalcemia); When intraoperative soft tissue coverage is not planned or possible; In direct contact with the articular space; In case of treatment with pharmaceuticals affecting calcium metabolism.

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