ARTELEN PRODUCT LISTING

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REFERENCES

12. Mechanical Testing Data on File
ARTELON®: DYNAMIC MATRIX TECHNOLOGY

Dynamic matrices are uniquely effective by providing both Strength AND Elasticity. These critical features protect the repair and restore kineismic motion which in turn optimizes tendon and ligament repair.

INCREASED STRENGTH WITHOUT KINEMATIC COMPROMISE

- Artelon’s Dynamic Matrix is proven in-vivo to nearly double the strength of the repair without altering stiffness.1
- Persistent strength does not lose integrity to necrotic healing (unlike autograft and allograft which lose 50-90%).1,2
- Compliant material does not over-constrain or stress shield
- Creep resistant technology protects against post-reconstruction laxity1,2

IN-VIVO MATERIAL STRENGTH DEGRADATION:

92% Stronger Repair^*  
EQUIVALENT TO  
Uninjured Tissue  
@ 8 weeks

Enhanced Repair with Unaltered Kinematics

3.1x More Laxity Resistant than Allograft

DYNAMIC RECONSTRUCTION

RESTORES KINEMATICS (IMMEDIATELY)

- Stretches like native tendon & ligament
- Permits anatomic motion around joints with correct muscle/tendon length and proprioception
- Creates a reconstruction stiffness similar to uninjured tissue* (Figure 2).

RESISTS NECROSIS

- Artelon’s Dynamic Matrix is proven to be non-inflammatory and mechanically stable throughout the phases of healing.
  - Maintains 90% of its mechanical properties through the first year of implantation while tissue grafts lose 50-90% of strength in first 6 weeks after surgery2,3
  - Less reactive than common biomaterials like titanium, polystyrene and suture2,3 (Figure 3)

SUPPORTS REGENERATION THROUGH KINESMATIC LOADING (MECHANOTRANSDUCTION)

- Healing connective tissues require mechanical loads to stimulate remodeling, maturation1,4
- Artelon’s Dynamic Matrix:
  - Promotes load sharing with native tissue, induces biological signaling responsible for tissue regeneration
  - Integrates harmlessly into healing tissue (Figures 4 & 5), maintains its properties for 4-5 years, then dissolves in water1,5

BENEFITS OF DYNAMIC REPAIR

- Resilient reconstruction strength throughout the healing cascade1,4,8
- 3x more resistant to laxity than competitive dermal grafts7
- Restoration of stability and kineistics over the short term and long term (12 year follow-up data)7
- Accelerated rehabilitation and return to activity2
- Rapid remodeling of tissue into strong, organized regenerate8 (Figure 6)
- Surgeon-friendly in the OR
  - Easily cut to size without fraying or strength loss
  - Consistent fixation with suture, anchors or interference screws
  - Simple to tension due to elasticity