

# NOVASHIELD®

## Bovine Type I Collagen Wound Matrix with 45S5 Bioactive Glass



### Key Features of NOVASHIELD® Wound Matrix



First 510(k) wound product containing Collagen + Bioactive Glass



Associated with a noticeable reduction in deep wound bed inflammation in a porcine full thickness wound model (compared to Endoform)<sup>1</sup>



3-year shelf-life (data on file)



Highly absorbent material & Easy to manipulate



Bovine type I collagen + 45S5 bioactive glass



510(k) cleared – June 2023



Provisional Patent filed

#### References:

1. Data on file 2. Naseri, Shiva, William C. Lepry, and Showan N. Nazhat. "Bioactive glasses in wound healing: hope or hype?" Journal of Materials Chemistry B 5, no. 31 (2017): 6167-6174. 3. Qi, Quan, Yanlun Zhu, Gang Liu, Zhize Yuan, Haiyan Li, and Qiang Zhao. "Local intramyocardial delivery of bioglass with alginate hydrogels for post-infarct myocardial regeneration." Biomedicine & Pharmacotherapy 129 (2020): 110382. 4. Li, Ying, Xin Zhang, Dan He, Zhijie Ma, Ke Xue, and Haiyan Li. "45S5 Bioglass® works synergistically with siRNA to downregulate the expression of matrix metalloproteinase-9 in diabetic wounds." Acta Biomaterialia 145 (2022): 372-389. 5. Dong, Xin, Jiang Chang, and Haiyan Li. "Bioglass promotes wound healing through modulating the paracrine effects between macrophages and repairing cells." Journal of Materials Chemistry B 5.26 (2017): 5240-5250. 6. Brett, David. "A review of collagen and collagen-based wound dressings." Wounds 20, no. 12 (2008): 347-356.

510(k) medical device skin substitute (TA-MLR-171) v.1 Effective 06/01/2026

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## NovaShield Wound Matrix is indicated for the management of wounds including:

- Partial and full-thickness wounds
- Pressure ulcers
- Venous ulcers
- Diabetic ulcers
- Chronic vascular ulcers
- Tunneled/undermined wounds
- Surgical wounds (donor sites/grafts, post-Moh's surgery, post-laser surgery, podiatric, wound dehiscence)
- Trauma wounds (abrasions, lacerations, partial thickness burns; and skin tears)
- Draining wounds

## Contraindications:

NovaShield Wound Matrix should not be used on:

- Patients with known sensitivity to bovine (cattle) derived materials.
- Third degree burns.

## Available Sizes

Part Code /SKU#	Description	Size	HCPCS Code
WM1011SP	NovaShield Wound Matrix	1cm x 1cm	A2045
WM1022SP	NovaShield Wound Matrix	2cm x 2cm	A2045
WM1033SP	NovaShield Wound Matrix	3cm x 3cm	A2045
WM1044SP	NovaShield Wound Matrix	4cm x 4cm	A2045
WM0122SP	NovaShield Wound Matrix	5cm x 5cm	A2045
WM0123SP	NovaShield Wound Matrix	5cm x 8cm	A2045
WM0133SP	NovaShield Wound Matrix	8cm x 8cm	A2045
WM0145SP	NovaShield Wound Matrix	10cm x 12cm	A2045

## NovaShield: Collagen-Bioglass Matrix Advantages



### Regeneration Roadblocks

Poor circulation

Chronic Inflammation

Missing Tissue (deep wounds)

Overexpression of matrix metalloproteinases (MMPs)



### NovaShield Advantages

Bioglass promotes angiogenesis, increasing blood flow to the wound site and supporting new tissue formation.<sup>2,3,4</sup>

Bioglass modulates inflammation to break the chronic wound cycle and advance to tissue regenerations.<sup>5</sup>

Bioglass promotes deposition of extracellular matrix proteins and formation of granulation tissue through the sustained release of calcium and silicon ions.<sup>4</sup> Porous collagen microstructure supports tissue regeneration.<sup>6</sup>

Bioglass modulates expression of MMPs, directing cellular activity toward regeneration.<sup>4</sup> Collagen serves as a sacrificial substrate for residual MMPs, protecting living tissue from proteolytic damage.<sup>6</sup>

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