

SAALT

TEXTILE TECHNOLOGY

A LICENSING OPPORTUNITY
FOR WOUND CARE &
MEDICAL TEXTILES

US Patent No. 12,290,427 B2 | Granted May 6, 2025



Saalt Wear: Proven Technology, Expanding into Medical

5–112 mL

Proven Absorbency Range (5 tiers)

10+ SKUs

Active Consumer Product SKUs

US Patent Granted

No. 12,290,427 B2 — May 6, 2025

✓ Proven Consumer Track Record

- **Multi-channel retail** across DTC e-commerce + physical stores in Seattle, Portland, Denver, Salt Lake City, Whistler
- **Absorbency independently tested:** Light (5 mL) through Ultra (112 mL) — equivalent to 1–12 tampons
- **Hanky Panky+ licensed collaboration** demonstrates IP cross-brand licensability at \$27–\$47 price points
- **4-layer architecture field-tested** against real-world bodily fluid volumes matching wound exudate levels

→ Now Expanding: Wound Care Applications

- ▶ **\$22B+ global wound care market** with premium reimbursement for advanced dressings; high-margin licensing opportunity
- ▶ **Same 4-layer architecture** maps directly to wound dressing requirements: wicking, absorption, containment, outer barrier
- ▶ **OEM licensing model:** wound care manufacturers adopt the textile; Saalt collects royalties without clinical burden
- ▶ **60–70% cost savings** vs. single-use dressings, per completed cost modeling analysis

IP Integration Map: Saalt Textile Layers → Wound Care Products

Each patent-protected layer maps directly to a clinical wound dressing function — ready for OEM integration

LAYER 1

Hydrophobic Wicking

- Saalt IP: hydrophobic mesh channels disperse fluid laterally on contact
- **Wound dressing use:** primary contact layer; pulls exudate away from wound bed; skin stays dry
- **Products:** Island dressings, post-op pads, wound contact layers

LAYER 2

Hydrophilic Absorption

- Saalt IP: hygroscopic absorbent core holds 5–112 mL without leakback
- **Wound dressing use:** absorbs and retains wound exudate; prevents maceration of surrounding tissue
- **Products:** Foam dressings, abdominal pads, surgical drain pads, moderate-heavy exudate dressings

LAYER 3

Leak-Resistant Containment

- Saalt IP: moisture-resistant barrier confines fluid; prevents strike-through to outer garment
- **Wound dressing use:** controls exudate strike-through; enables safe ambulation without soiling clothing
- **Products:** Compression bandages, ostomy-adjacent pads, incontinence-linked dressings

LAYER 4

Breathable Outer Barrier

- Saalt IP: fashion-matched outer layer maintains breathability while blocking visible fluid
- **Wound dressing use:** waterproof-breathable outer surface; patient comfort and infection barrier
- **Products:** Waterproof surgical covers, burn dressings, antimicrobial outer wraps

Target Wound Care Product Categories

Advanced Wound Dressings

- Island dressings & foam pads
- Post-surgical absorbent pads
- Chronic wound dressings

Compression & Support

- Compression bandage liners
- Lymphedema garment inserts
- Stump sock / prosthetics liners

Incontinence & Specialty

- Reusable incontinence pads
- Burn wound outer covers
- Antimicrobial ostomy care pads

EXECUTIVE SUMMARY

The IP

US Patent 12,290,427 B2 — a patented multilayer textile system for managing bodily fluids. Filed Oct 2020. Granted May 2025. 18 claims covering materials, systems, and methods.

The Opportunity

License to wound care manufacturers, OEM absorbent textile suppliers, and medical device companies seeking patented differentiation in a \$22B+ market.

The Advantage

Superior absorbency (up to 112 mL), maintains dry skin interface under compression, thinner profile than foam, configurable across wound exudate levels.

The Economics

Projected unit cost ~\$1.21 vs. \$2–\$5 for conventional dressings. Fewer dressing changes = up to 61% lower total daily care cost vs. SAP pads.

THE WOUND CARE MARKET OPPORTUNITY

\$22B+

Global Wound Care
Market (2024)

CAGR 5.8%

\$8.4B

Advanced Wound
Dressings Segment

Fastest growing tier

60%

Patients with
Chronic Wounds

Diabetic/venous/pressure

2–3×

Daily Dressing
Changes (Average)

Key nursing cost driver

KEY MARKET DRIVERS FOR SAAIT TECHNOLOGY

- ▶ Growing demand for absorbent materials that maintain dryness under compression pressure
- ▶ Clinical pressure to reduce dressing change frequency — lowering nursing labor costs
- ▶ OEM manufacturers seeking patented IP to differentiate in commodity textile markets
- ▶ Sustainability mandates favoring washable/reusable medical textile solutions

THE PATENTED TECHNOLOGY

Moisture-wicking

Instantly pulls moisture down and away from your body to keep you dry. Have a period, don't feel it.



Liquid lock, odor fighting layer
Locks in leaks without feeling wet or bulky.

Silky soft and sustainable outer layer
Made of soft and breathable biodegradable natural cotton.

Leakproof barrier

The sheet-saving, tight-pants-braving, water-repelling layer for no-pad-no-problem confidence.

US Patent 12,290,427 B2

Multilayered Textile Material for Containing Liquids and Associated Systems and Methods

1

Layer 1 — Hydrophobic Wicking

Draws fluid inward from skin-contact surface, disperses laterally. Keeps the contact surface dry even under repeated fluid loading.

2

Layer 2 — Absorbent Core

High-filament construction locks fluid and prevents re-wet. Holds up to 112 mL depending on configuration.

3

Layer 3 — Hydrophilic Transport

Channels fluid through the material enabling configurable absorbency zones and multi-directional flow management.

4

Layer 4 — Confinement Base

Contains fluid within the textile system — prevents strike-through and leakage under compression bandaging.

TECHNOLOGY IN ACTION



Hydrophobic yarns guide liquid down — hydrophilic channels lock it away from the surface.



Liquid goes down. It doesn't come back.

Key Insight: Saalt's patented multi-layer textile achieves superior absorbency without bulk — maintaining a dry skin interface under compression, which is precisely what wound care and medical textile applications require.

TECHNOLOGY ADVANTAGES

Exceptional Absorbency

- Light: 5–10 mL (1–2 tampons equiv.)
- Regular: 15–25 mL (4 tampons equiv.)
- Heavy: 25–35 mL (5 tampons equiv.)
- Ultra: 80–112 mL (12 tampons equiv.)
- Configurable across wound exudate levels

Thin Profile & Comfort

- Significantly thinner than foam dressings
- Reduces bulk under compression wraps
- Improves patient compliance & mobility
- Less material waste per application
- Adapts to varied wound geometries

Dry Under Compression

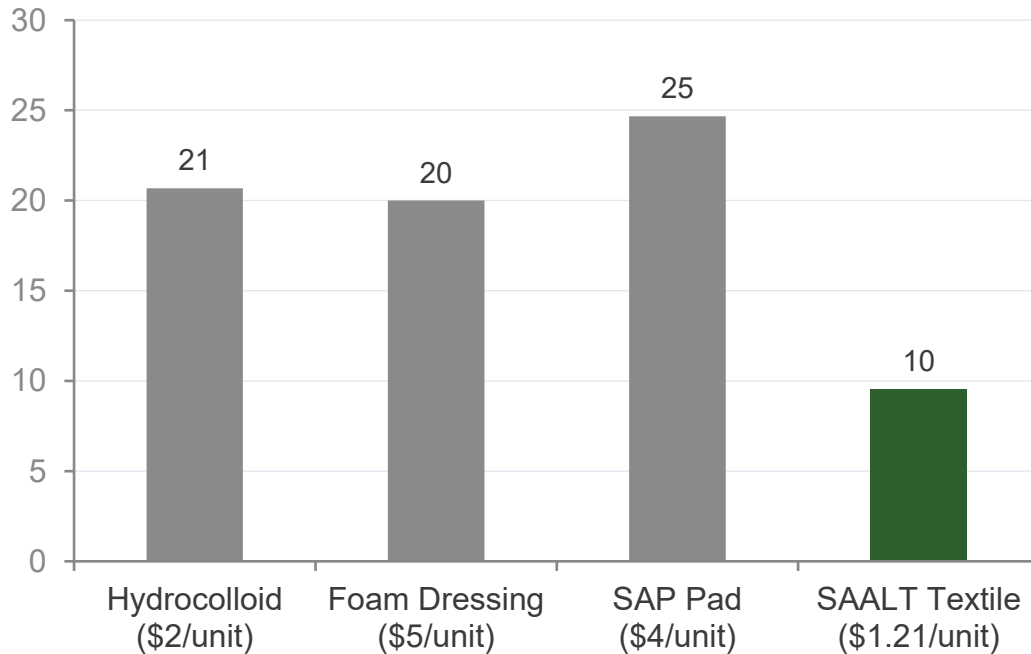
- Fluid locked in interior layers — no strike-through
- Critical for compression bandage applications
- Maintains dry wound interface preventing maceration
- Reduces secondary infection risk
- Superior to foam under bandaging pressure

Versatile & Scalable IP

- Patent covers materials, systems, and methods
- Multi-application (wound, incontinence, post-op)
- OEM manufacturing compatible
- Washable/reusable versions possible
- Licensable across multiple product categories

COST COMPARISON: TOTAL DAILY CARE COST

Assumptions: \$50/hr clinician rate, 10 min per dressing change — SAALT: 1 change/day; competitors: 1.5–2 changes/day



SAALT COST ADVANTAGE

SAALT Unit Cost

\$1.21

BOM + pkg

SAALT Daily Cost

\$9.54

1 change/day

vs. Hydrocolloid

-54%

daily saving

vs. SAP Pad

-61%

daily saving

Change Frequency

1x/day

vs. 1.5–2× others

TARGET MARKET APPLICATIONS

Wound Care Dressings

- Acute wound dressings (surgical, trauma)
- Chronic wound management (diabetic ulcers)
- Pressure injury prevention pads
- Post-op exudate management dressings
- Burn care secondary dressings

Compression Therapy

- Venous leg ulcer compression bandages
- Lymphedema management wraps
- Orthopedic post-op compression garments
- Athletic recovery compression sleeves
- Edema management systems

OEM Absorbent Materials

- Medical device substrate licensing
- Incontinence product innovation
- Feminine hygiene applications
- Postpartum care product lines
- Industrial absorbent textile licensing

COMPETITIVE LANDSCAPE

Feature	SAALT Textile (Patent Pending)	Hydrocolloid	Foam Dressing	SAP Pad	Gore-Tex Medical
High Absorbency (80–112mL+)	✓ YES	⚠ Limited	✓ YES	✓ YES	✗ NO
Dry Under Compression	✓ Superior	⚠ Moderate	⚠ Moderate	⚠ Variable	✓ Good
Thin / Low Profile	✓ Very Thin	✓ Thin	✗ Bulky	⚠ Moderate	✓ Thin
Reusable/Washable	✓ YES	✗ NO	✗ NO	✗ NO	⚠ Limited
Configurable Layers	✓ YES	✗ NO	✗ NO	⚠ Partial	✗ NO
Patent Protected	✓ US 12,290,427	✗ Generic	✗ Generic	✗ Generic	✓ Multiple
Est. Unit Cost	✓ ~\$1.21	⚠ \$1.50–3	✗ \$4–6	⚠ \$3–5	✗ Premium
Daily Care Cost	✓ ~\$9.54	⚠ ~\$20.67	⚠ ~\$20.00	✗ ~\$24.67	✗ High

LICENSING ENGAGEMENT STRUCTURE

STAGE 1

Evaluation Agreement

Determine Market Viability

- **Execute NDA** to access full technical package, patent file, and performance data
- **Full rights to use IP for R&D and testing** — prototype development, lab evaluation, and product application testing permitted
- **No commercial rights granted** during this stage — internal evaluation use only; no sale, distribution, or commercial manufacturing
- **Application-fit assessment** — determine product-market fit, performance benchmarks, and commercial potential before proceeding to Stage 2

No commercial commitment required to enter Stage 1



STAGE 2

Full Commercial License

Full-Term Licensing Agreement

- ▶ **Commercial rights granted** to manufacture, distribute, and sell products incorporating the licensed IP in agreed fields of use
- ▶ **Customized field of use and territory** — defined by application category and geographic scope negotiated between parties
- ▶ **Exclusive or non-exclusive options** — exclusivity within defined field may be available based on strategic fit and commercial commitment
- ▶ **Financial structure customized** to the licensee's business model and product category — specific financial terms negotiated between parties

All commercial terms tailored to licensee's specific application and market

NEXT STEPS

Begin Your Licensing Journey

SAALT Patented Absorbent
Process Textile

CONTACT US TODAY

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1

Introductory Discussion

Initial conversation to explore interest and potential fit.

2

Confidential Technical Review

Detailed technology review under NDA.

3

Stage 1 Validation Agreement

Short agreement to evaluate feasibility and application.

4

Prototype and Performance Testing

Build and test prototypes to confirm performance.

5

Commercial Licensing Agreement

Execute licensing agreement defining rights and royalties.