



DHS Innotech

Pioneering **UHMWPE** ballistic materials from **TAIWAN**

We secure survivability, lighter, broader coverage.
Built for real-world threats ---
powered by DHS Innotech's UHMWPE technology.

**Taiwan's First Fully Integrated Producer of
UHMWPE Yarn & Ballistic Fabrics**

Independent R&D | Advanced Ballistic Materials | Lightweight Protection Solutions
Advancing defense self-reliance through next-generation UHMWPE materials.

ABOUT DHS INNOTECH

DHS Innovation Technology Co., Ltd. (DHS Innotech™) is a Taiwan-based UHMWPE materials company specializing in high-performance fibers and ballistic fabrics.

As one of Taiwan's early UHMWPE pioneers, DHS has established integrated manufacturing capabilities spanning UHMWPE yarn and ballistic fabrics, supported by dedicated in-house R&D focused on advanced material innovation.

With expertise in ballistic-resistant materials, DHS provides lightweight, high-strength material solutions for military, law enforcement, and modern protection applications.

Core Capabilities

- UHMWPE Materials R&D
- Yarn-to-Fabric Integrated Manufacturing
- Ballistic Fabric Engineering
- Lightweight Protection Systems
- Defense Application Solutions



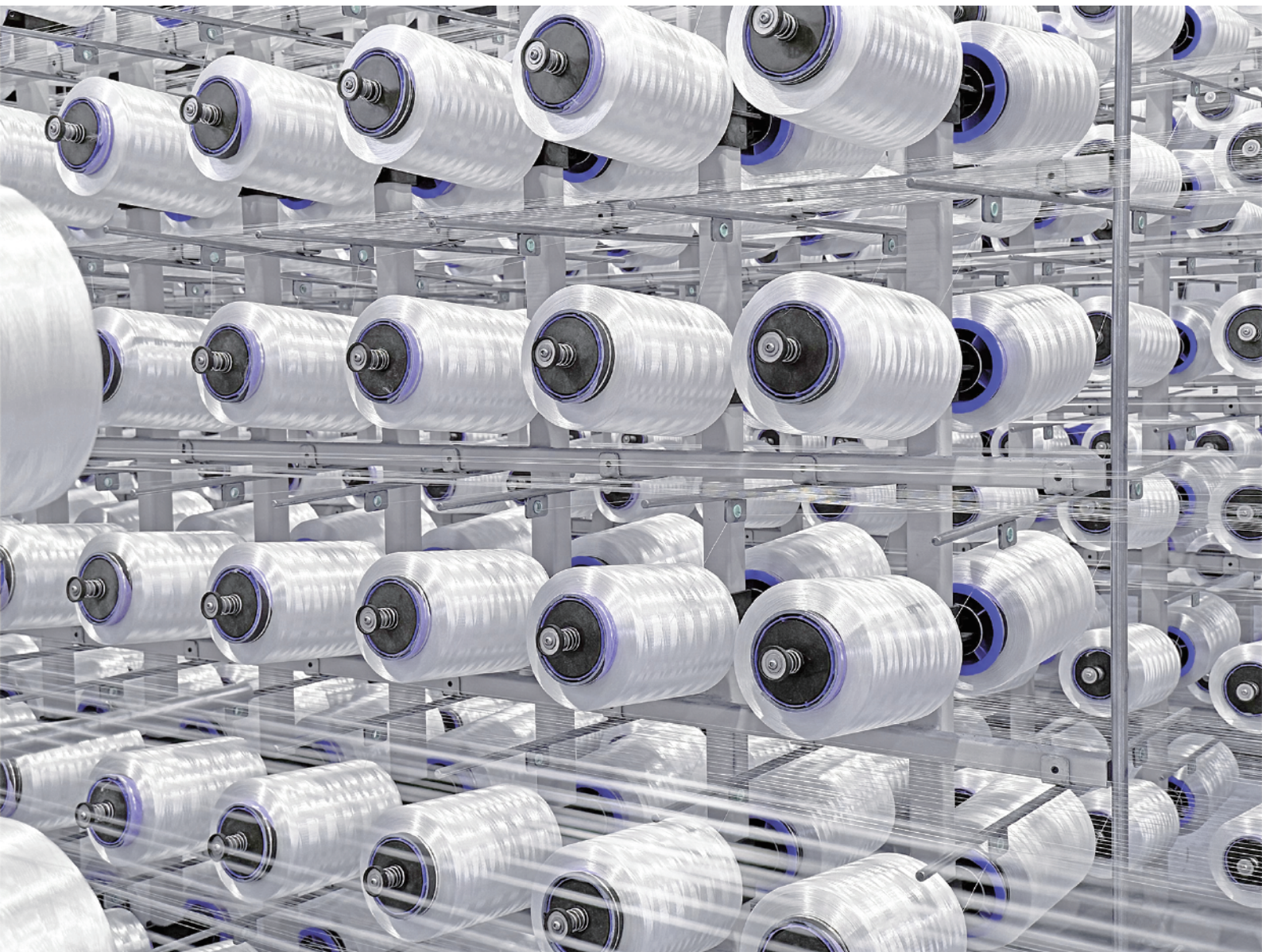
Professional
Team



R&D
Driven



Defense
focused



WHY PARTNER WITH DHS INNOTECH



GLOBAL RECOGNITION

- Listed in the international ballistic materials manufacturer directory by BodyArmorNews.com.



NIJ TESTED & PROVEN PERFORMANCE

- Protective products using our materials meet NIJ ballistic standards.



MILITARY-GRADE QUALITY & COMPLIANCE

- ISO 9001 Certified Quality Management System (QMS).
- ISO/IEC 27001 Certified Information Security Management System (ISMS).
- Passed Taiwan MOD military factory inspection covering 12 categories.



FULL IN-HOUSE CAPABILITY

- From UHMWPE yarn to finished ballistic fabric manufacturing.



MADE IN TAIWAN

- Reliable, traceable, non-China supply chain.



CORE ENGINEERING & IP STRENGTH

- Patented UHMWPE ballistic fabric architecture and protective system engineering.



**MADE IN
TAIWAN**

Precision materials.
Proven protection.

UHMWPE UD FABRIC ARCHITECTURE

How DHS Materials Manage Ballistic Energy

DHS UHMWPE UD fabrics are developed through an integrated material engineering process, combining fiber processing, unidirectional alignment, and thermoplastic lamination.

The material utilizes controlled molecular orientation and engineered fiber orientation architecture to ensure consistent structural performance and efficient ballistic energy distribution.

Upon impact, energy is rapidly dispersed across the layered structure, reducing localized stress and improving overall protection efficiency while maintaining lightweight mobility and comfort.



**Environmental
Resistance**



**Lightweight High
Strength System**



**Advanced Fiber
Architecture**



**High Energy
Absorption
Efficiency**

DHS INNOTECH UD FABRICS SPECIFICATION



UD Fabrics Item No.	DHS-TW01	DHS-TW02
Width and Length	Standard: 1.53+0.02m width, ≥ 100 m length per roll Customized: 1.50-1.60m width, 100-200m per roll	
Material	UHMWPE Unidirectional Fibers	
Type	Laminated UHMWPE UD Materials	
Color	White	
Thickness per PCS	<0.40 mm	
Areal Weight (as per product requirements)	< 300 g/m ²	< 250 ± 10% g/m ²
Applicable Protection Levels	• NIJ 0101.06 Level IIIA (Soft Armor) • NIJ 0108.01 Level IIIA (Ballistic Resistant Materials) • NIJ 0115.00 Level I (Stab Resistance)	• NIJ 0101.04 Level IV • NIJ 0101.06 Level III (ICW system configuration) Designed for use with IIIA soft armor and ceramic or composite hard armor plates.
Application	• Soft armor panels • Ballistic inserts • Protective inserts	• Hard/ICW armor systems • Ballistic composite panels



FABRIC ADVANTAGES

Built for Lifecycle Efficiency — Beyond Initial Material Cost

UHMWPE ballistic fabric delivers extended service life, stable protection performance, and lower total ownership cost through reduced replacement frequency and maintenance demand.

KEY BENEFITS



Lower Total Ownership Cost



Stable Long-Term Performance



Reduced Replacement Cycles



Lower Storage Degradation Loss



Reduced Maintenance Costs

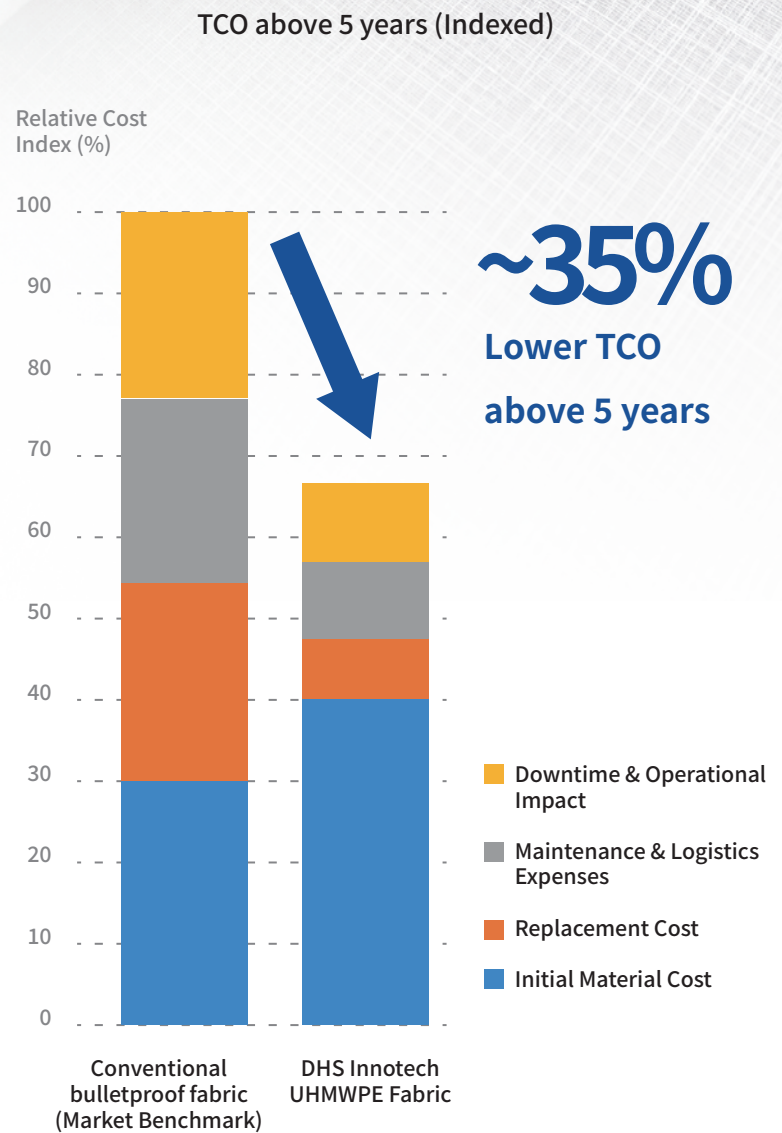


Easy Processing & Handling

Higher efficiency. Lower lifecycle cost.

Engineered for lightweight protection, long-term durability, and optimized lifecycle value for next-generation ballistic applications.

TOTAL COST OF OWNERSHIP (TCO) COMPARISON



*Index: Conventional bulletproof fabric = 100%



**Built to last.
Built to save.**

BODY ARMOR APPLICATIONS

Advanced Anti-Ballistic Solutions for PPE & Integrated Protection Systems

Our UHMWPE ballistic fabric is widely adopted in personal protective equipment (PPE) and is engineered for seamless integration into advanced protective architectures, combining mobility, durability, and ballistic performance.

Personal Protective Applications

- ✓ Body Armor Inserts
- ✓ Tactical and Law Enforcement Vests
- ✓ Emergency & Disaster Response Protective Bags
- ✓ Composite Armor Plate Backing Layers



Military



Vest



Helmet



Armor plate



Ballistic Inserts

Civilian



Backpack insert



Briefcase insert



Protective pads & impact-absorbing inserts



Safety barrier applications



We help you stay protected, lighter, and ready for real threats.

Engineered for Protection Beyond Limits.

—powered by DHS Innotech UHMWPE technology.



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Explore DHS Innotech solutions