

LONG-ARMOR™

Innovating for a Safer World.

Ballistic Protection Solutions



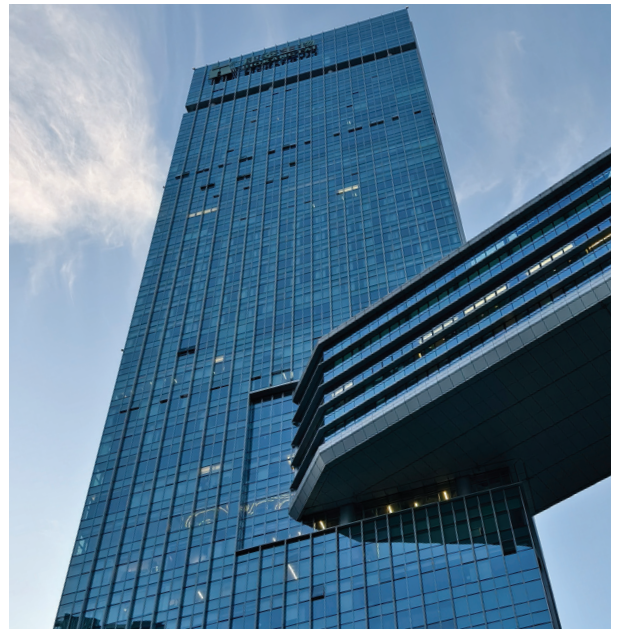
 **SINO
FIBRA**

Sinofibra Advanced Materials

About Sinofibra: Innovating for Superior Protection — From Fiber to Field-Ready

Sinofibra Advanced Materials (Shenzhen) Co., Ltd. stands at the forefront of global ballistic protection, distinguished by its fully integrated industrial chain. From the production of high-performance para-aramid fibers to the development of advanced unidirectional (UD) fabrics, and finally to the precise manufacturing of finished ballistic products under our flagship brand LOONG-ARMOR™, we control every stage of the process. This vertical integration ensures uncompromising quality, cost efficiency, and the agility to deliver tailored solutions that meet the diverse demands of defense, law enforcement, and security applications worldwide.

With major production bases in Hunan and Zhejiang, Sinofibra operates **Asia's only soft UD production line** utilizing Honeywell-derived core technology, enabling us to produce materials on par with—and often exceeding—leading Western standards. By uniting innovation, engineering excellence, and a complete in-house ecosystem, we deliver next-generation ballistic protection systems with unmatched speed, consistency, and reliability. Sinofibra is more than a materials supplier—we are a global solutions partner, dedicated to engineering confidence and weaving security for a safer world.

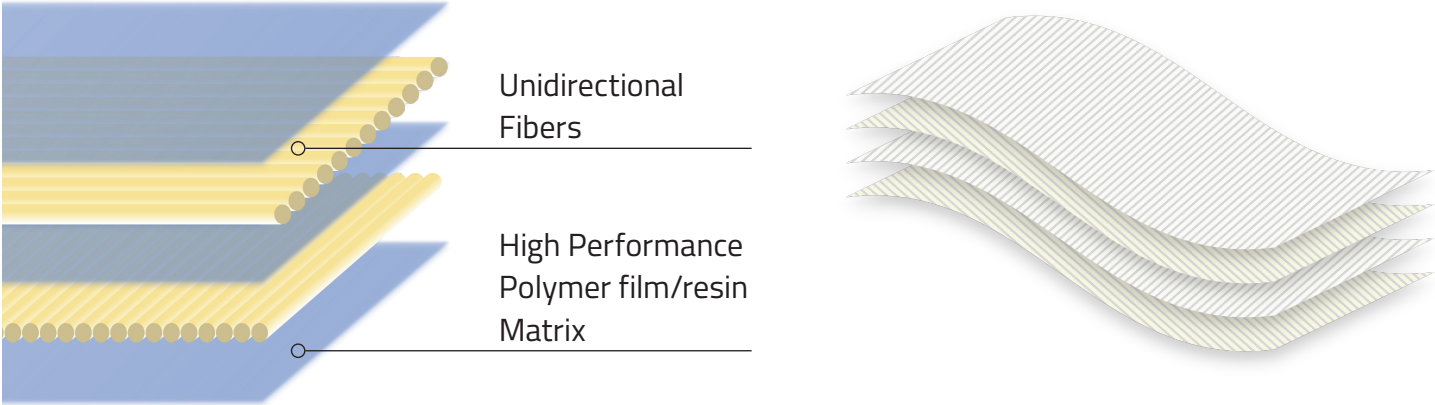


LOONG-ARMOR™ UD Fabric

LOONG-FLEX™ UD Fabric: The Benchmark for Lightweight, Flexible Ballistic Performance.

The foundation of every **LOONG-ARMOR™** product is our proprietary **LOONG-FLEX™** para-aramid UD fabric. Engineered for exceptional energy absorption and minimal back-face deformation, our UD materials set the standard for lightweight, flexible protection.

LOONG-FLEX™ UD Fabric: Asia’s Benchmark for Softness & Performance



Unparalleled Flexibility

Enhances wearer comfort and maneuverability.



Exceptional Ballistic Performance

Provides superior stopping power against various threats.



Lightweight Construction

Reduces overall gear burden without compromising safety.

Property	SA2150 (2UD)	SA2135 (4UD)	SA3180 (4UD)
Base Fiber	Para-aramid >22.5cN/dtex	Para-aramid >23cN/dtex	Para-aramid >23.5cN/dtex
Areal Density	150gsm	235gsm	180gsm
NIJ IIIA Core Density	4.5kg/m ²	4.23kg/m ²	4kg/m ²
1.1g V50 (5kg)	500m/s	540m/s	545m/s

LOONG-ARMOR™ Product Categories

Asia's Softest Ballistic Vests

Experience Unrivaled Comfort & Protection with LOONG-ARMOR™ Ballistic Vests

LOONG-ARMOR™ introduces Asia's Softest Ballistic Vests, designed with an innovative blend of our advanced UD fabric and ergonomic construction. We offer a diverse range of vest types to cater to various operational needs and threat levels, ensuring uncompromising safety and comfort for all wearers.

Key LOONG-ARMOR™ Ballistic Vest Categories:

Military Ballistic Vests (LOONG-ARMOR Defender Series):

Designed for extreme conditions, providing comprehensive multi-threat protection for military personnel. Featuring enhanced load-bearing capabilities and modular attachments.



Full Protection Ballistic Vests (LOONG-ARMOR Guardian Series):

Offering extended coverage and superior stopping power, ideal for law enforcement, special forces, and security operations requiring maximum ballistic and blunt force trauma protection.



LOONG-ARMOR™ Product Categories

Asia's Softest Ballistic Vests

Military Ballistic Vests (LOONG-ARMOR™ Recon Vest):

Lightweight and highly maneuverable plate carriers and vest designs, optimized for tactical mobility and swift deployment, without compromising on critical protective areas.



Covert Ballistic Vests (LOONG-ARMOR™ Stealth Series):

Engineered for discreet wear, providing optimal ballistic protection that remains imperceptible under regular clothing. Focus on ultra-thin profiles, flexibility, and comfort for extended wear.



LOONG-ARMOR™ Product Categories

LOONG-ARMOR™ Ballistic Helmets: Advanced Protection, Minimal Weight

LOONG-ARMOR™ proudly presents Asia's Lightest Ballistic Helmets, engineered to offer superior head protection without compromising on agility or wearer comfort. Our helmets integrate cutting-edge materials with ergonomic designs to deliver optimal ballistic resistance and blunt force trauma protection across various operational scenarios.

Key Features:



Ultra-Lightweight Construction



Advanced Ballistic Shell



Ergonomic Design & Custom Fit



Ventilation & Padding Systems

LOONG-ARMOR™ Helmet Models:

Full Cut (Tactical):

Maximizes coverage and offers comprehensive protection for tactical operations, with options for accessory mounting.

Mid Cut (Standard):

A versatile balance of protection and peripheral vision, suitable for a wide range of mission profiles.

High Cut (Special Operations):

Optimized for increased hearing and field of view, ideal for operators requiring frequent use of communication headsets and hearing protection.

LOONG-ARMOR™ Product Categories

LOONG-ARMOR™ Ballistic Helmets: Advanced Protection, Minimal Weight



Shape	PASGT
Material	Para Aramid
Protect Level	NIJ 0106.01IIIA
Bullets	9mm FMJRN .44 Magnum SJHP
Fragment Protection	V50 Value (17 grain FSP) as per STANAG 2920: ≥680m/s
Weight	1.3-1.6kg
Size	M L XL



Shape	MICH
Material	Para Aramid
Protect Level	NIJ 0106.01IIIA
Bullets	9mm FMJRN .44 Magnum SJHP
Fragment Protection	V50 Value (17 grain FSP) as per STANAG 2920: ≥680m/s
Weight	1.35-1.6kg
Size	S M L XL



Shape	FAST
Material	Para Aramid
Protect Level	NIJ 0106.01IIIA
Bullets	9mm FMJRN .44 Magnum SJHP
Fragment Protection	V50 Value (17 grain FSP) as per STANAG 2920: ≥680m/s
Weight	1.4-1.55kg
Size	M L XL

LOONG-ARMOR™ Product Categories

Vehicle Ballistic UD & Automotive Armor Inserts

LOONG-ARMOR™ Vehicle Protection: Ensuring Mobility & Safety

Sinofibra's LOONG-ARMOR™ series extends its advanced ballistic solutions to the automotive sector, offering comprehensive protection for civilian and armored vehicles. Our innovations enhance vehicle survivability against various ballistic threats while minimizing added weight.

LOONG-ARMOR™ Vehicle Ballistic UD Fabric (V-UD)

Our specialized Vehicle Ballistic UD (V-UD) fabric is engineered for automotive integration, providing high-performance, lightweight armor solutions. It is designed to be easily processed and molded, making it ideal for the complex geometries of vehicle interiors and exteriors.

LOONG-ARMOR™ (V-Plates)

LOONG-ARMOR™ offers pre-fabricated and custom-designed automotive armor inserts, meticulously crafted from our high-performance UD fabric and composite materials. These inserts are developed to integrate seamlessly into vehicle structures, providing targeted protection for critical areas.

Protection Levels:

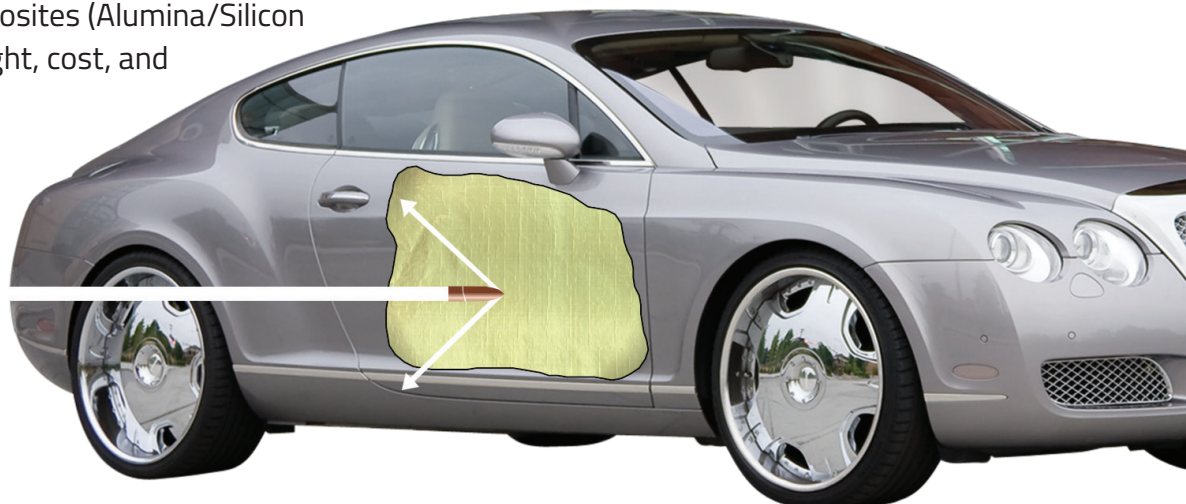
From NIJ III to STANAG 4569 Level 3. We provide solutions against common threats including 7.62x39mm MSC (AK47) and 7.62x51mm M80.

Design & Fit:

Engineered for optimal fit within specific vehicle models, ensuring comprehensive coverage and ease of installation.

Materials:

Optimized Material Science: We utilize a range of materials including pressed UHMWPE, Aramid, and advanced ceramic composites (Alumina/Silicon Carbide) to balance weight, cost, and multi-hit performance.



LOONG-ARMOR™ Product Categories

Helicopter Armor Inserts

LOONG-ARMOR™ Aviation Protection: Guardian of the Skies

For critical aviation assets, LOONG-ARMOR™ provides specialized ballistic insert solutions designed to protect helicopters and their occupants from airborne threats. Our lightweight yet robust armor inserts are crucial for enhancing survivability in hostile environments.

LOONG-ARMOR™ Helicopter Armor Inserts (H-Plates)

Crafted using advanced multi-layer composites and proprietary manufacturing techniques, LOONG-ARMOR™ H-Plates are engineered to withstand complex ballistic threats encountered in aerial operations. These inserts are precision-designed for specific helicopter models and mission profiles, offering critical protection for sensitive areas without impacting flight performance.



Ballistic Armor Inserts Data

LOONG-ARMOR™ Ballistic Plates: Uncompromising Stopping Power

Our LOONG-ARMOR™ ballistic armor inserts are meticulously engineered and tested to provide unparalleled protection against a wide spectrum of threats. Utilizing advanced ceramic and composite materials (e.g., Alumina, Silicon Carbide, UHMWPE), we deliver multi-hit capable plates designed for sustained performance in high-threat environments.



	Alumina Ceramic Plate	UHMWPE Plate	SiC Ceramic Plate	B4C Ceramic Plate
Size	250mm×300mm (10"×12") 200mm×250mm (8"×10") 150mm×200mm (6"×8") 150mm×150mm (6"×6")	260mm×325mm (10.2"×12.8") 250mm×300mm (10"×12") 200mm×250mm (8"×10") 150mm×200mm (6"×8")	250mm×300mm (10"×12") 200mm×250mm (8"×10") 150mm×200mm (6"×8") 150mm×150mm (6"×6")	260mm×325mm (10.2"×12.8") 250mm×300mm (10"×12")
Curvature	Single Curve/Multi Curve	Single Curve/Multi Curve	Single Curve/Multi Curve	Multi Curve
Outer Finish	Fabric Coated Covering Polyurea Sprayed	Fabric Coated Covering Polyurea Sprayed	Fabric Coated Covering Polyurea Sprayed	Fabric Coated Covering Polyurea Sprayed
Protection Level	NIJ0101.04/06 LevelIII/IV NIJ0101.07 RF1/RF2/RF3	NIJ0101.04/06 LevelIII NIJ0101.07 RF1	NIJ0101.04/06 LevelIII/IV NIJ0101.07 RF1/RF2/RF3	NIJ0101.04/06 LevelIII/IV NIJ0101.07 RF1/RF2/RF3
Bullets Stop	7.62×51mm M80 NATO 7.62×39mm AK47 MSC 5.56×45mm SS109/M193 7.62×54 7.62×54 RAPI 7.62×63mmM2AP	7.62×51mm M80 NATO 7.62×39mm AK47 MSC 5.56×45mm SS109/M193	7.62×51mm M80 NATO 7.62×39mm AK47 MSC 5.56×45mm SS109/M193 7.62×54 7.62×54 RAPI 7.62×63mmM2AP	7.62×51mm M80 NATO 7.62×39mm AK47 MSC 5.56×45mm SS109/M193 7.62×54 7.62×54 RAPI 7.62×63mmM2AP

Global Production Line & Empowerment

Empowering Global Defense with LOONG-ARMOR™ Localized Production

Sinofibra's strategic vision extends beyond delivering advanced ballistic products; we are committed to empowering nations worldwide to achieve self-reliance in defense. Through our innovative global production line deployment capabilities, we offer a unique value proposition for establishing localized UD fabric and mechanical cutting lines overseas.

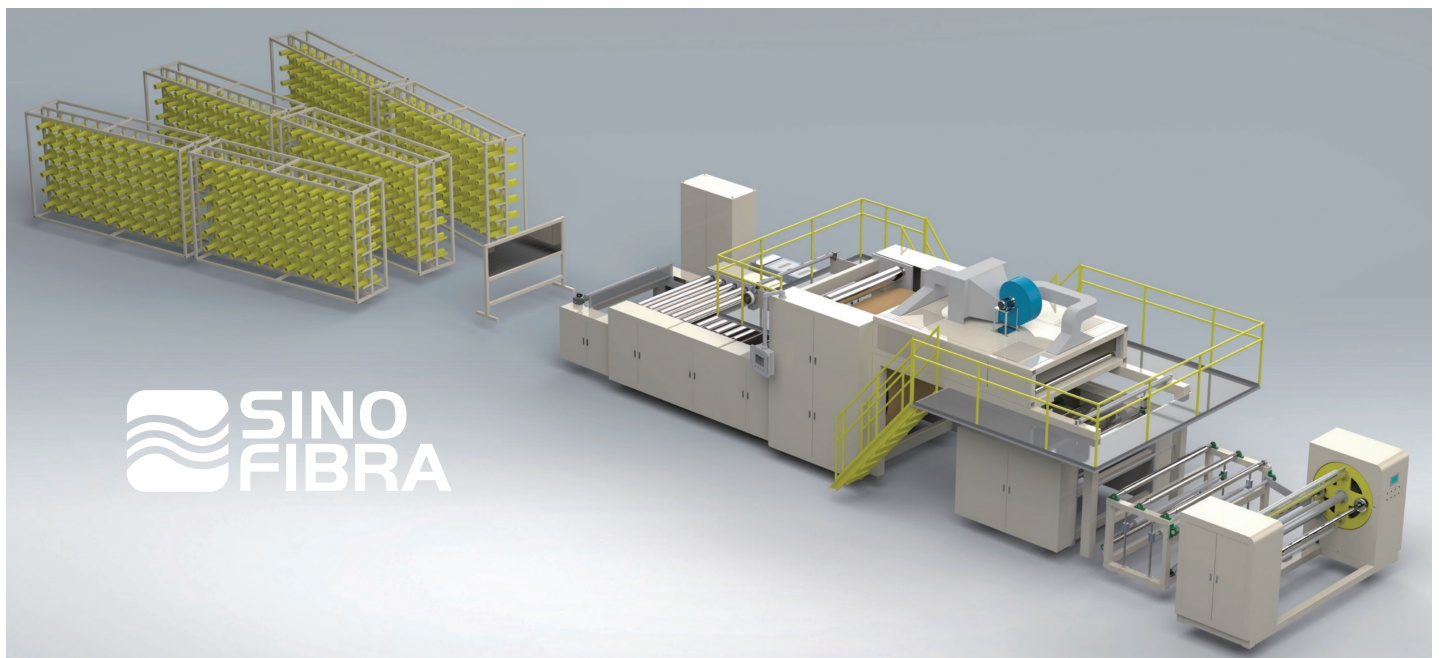
Our Capabilities:

Overseas UD Fabric Production Lines:

We can design, establish, and commission advanced unidirectional fabric production facilities in partner countries. This includes transferring core technology, providing essential equipment, and offering comprehensive technical training for local workforces.

Mechanical Cutting Lines & Assembly Facilities:

Beyond raw material production, we facilitate the setup of high-precision mechanical cutting lines and finished product assembly plants. This allows for efficient and accurate processing of UD fabrics into ballistic vests, plates, and other protective gear, optimizing local manufacturing capabilities.



Customization & R&D

Your Mission, Our Solution: The Power of Customization

One size does not fit all. Our vertically integrated model gives us unparalleled flexibility to create bespoke ballistic solutions. From developing materials to counter specific threats to designing armor for unique platforms or body types, our R&D team works directly with you to transform your requirements into reality.



Vision of Sinofibra Advanced Materials

Shaping the Future of Global Ballistic Ecosystems

Sinofibra and our LOONG-ARMOR™ brand envision a future where advanced ballistic protection is globally accessible, adaptable, and sustainably produced. Our vision is built upon pillars of innovation, collaboration, and national empowerment, aimed at fostering a more secure world.

Our Core Commitments:

Global Ballistic Industry Ecosystem Layout: We are dedicated to building and fostering a robust global ecosystem for ballistic solutions. This involves strategic partnerships, technology sharing, and establishing regional manufacturing hubs to decentralize production and enhance global responsiveness.

Empowering National Defense Autonomy: Our fundamental goal is to provide sovereign nations with the tools and capabilities to achieve self-sufficiency in their ballistic protection needs. Through technology transfer, localized production lines, and comprehensive training, we enable countries to develop their indigenous defense industrial base.

Customized Ballistic Solutions: We recognize that every threat landscape is unique. Our vision is to be the premier provider of highly customized ballistic solutions, meticulously engineered to address specific threats, operational environments, and regulatory requirements of our diverse clients worldwide.

A Future Defined by Safety and Self-Reliance

At Sinofibra, we believe in a future where innovative materials and intelligent design coalesce to offer unparalleled protection. We strive to be the strategic partner for governments, militaries, and law enforcement agencies globally, delivering peace of mind through cutting-edge ballistic technology.



Quality Certifications & Standards

LOONG-ARMOR™: Adherence to the Highest International Standards

At Sinofibra, quality and reliability are paramount. Our LOONG-ARMOR™ ballistic products are manufactured under rigorous quality control systems and are consistently tested and certified to meet or exceed the most demanding international ballistic standards. This unwavering commitment to excellence ensures that every product offers dependable, life-saving protection.

Our Certifications & Compliance:

NIJ Standard-0101.06: The benchmark for ballistic resistance of body armor in the United States. Our products undergo extensive testing to meet various levels (e.g., Level IIA, II, IIIA, III, IV), ensuring compliance with the highest performance requirements.

HOSDB (UK) / VPAM (Germany): Where applicable, LOONG-ARMOR products are tested against European standards to cater to the specific requirements of the European defense and law enforcement sectors, demonstrating versatility and global compatibility.

ISO 9001:2015 Certified: Our manufacturing processes and quality management systems are certified to ISO 9001:2015, ensuring consistent product quality, process efficiency, and continuous improvement across all operations.

Internal Quality Assurance & Testing: Beyond external certifications, Sinofibra operates state-of-the-art internal testing facilities. This includes advanced ballistic ranges for live-fire testing, material analysis labs, and environmental chambers to rigorously assess product performance under simulated real-world conditions.

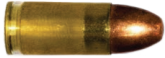
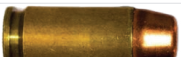






Traceability: Every LOONG-ARMOR™ product is manufactured with full traceability, from raw material sourcing to final product assembly, guaranteeing transparency and accountability in our supply chain.



NIJ Standard & Design

Shaping the Future of Global Ballistic Ecosystems

LOONG-ARMOR™ Systems is committed to providing a solution for every threat. Whether duty calls for protection from bullets, spiked weapons, or both, LOONG-ARMOR™ has you covered. All products are designed to meet and exceed federal test standards. The tables below identify baseline threats tested during certification. Special threat testing is available for select models and performed at NIJ-certified independent test facilities

NIJ STANDARD-0101.06 BALLISTIC RESISTANCE				
Bullet Caliber & Type		Bullet Weight (Grains)	New Armor Velocity (ft/s)	Conditioned Armor (ft/s)
Threat level IIA	 9mm	124	1225	1165
	 .40 S&W FMJ	180	1155	1065
Threat level II	 9mm FMJ	124	1305	1245
	 .357 Magnum JSP	158	1430	1340
Threat level IIIA	 .357 SIG FMJ	125	1470	1410
	 .44 Magnum SJHP	240	1430	1340
Threat level III	 7.62mm (M80)	147	N/A	2780
Threat level IV	 30 Callber Armor Piercing Rifle Round (M2 AP)	166	N/A	2880

NIJ STANDARD-0115.00 STAB RESISTANCE				
"E1" STRIKE ENERGY			"E2" OVERTEST STRIKE ENERGY	
	JOULES	FT•LBF	JOULES	FT•LBF
Spike level 1	24 ± 0.50	17.7 ± 0.36	36 ± 0.60	26.6 ± 0.44
Spike level 2	33 ± 0.60	24.3 ± 0.44	50 ± 0.70	36.9 ± 0.51
Spike level 3	43 ± 0.60	31.7 ± 0.44	65 ± 0.80	47.9 ± 0.59

Together with Sinofibra, Shaping the Future.

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