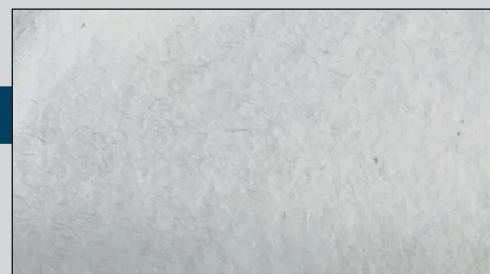
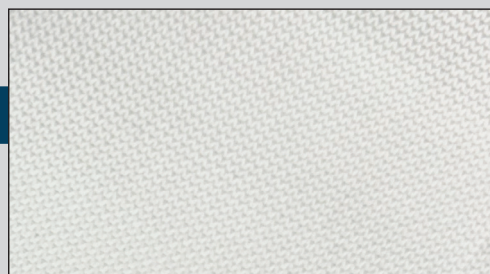


ATF71 Anti-Stab Insert

ATF71 is a multilayer composite based on high-performance engineered UHMWPE fibers, designed to provide an exceptional strength-to-weight ratio, high cut and abrasion resistance, and outstanding durability in demanding operational environments.



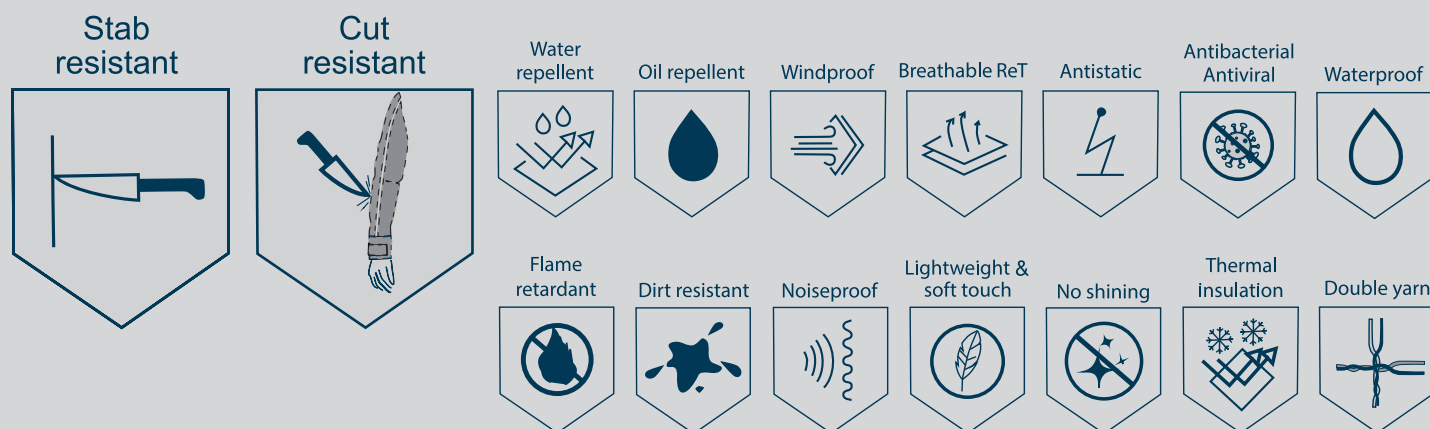
Its lightweight and flexible construction ensures high comfort and mobility during prolonged wear while maintaining reliable protection.

Testing, Reference Standard and Protection Level

The protective performance of the ATF71 insert is designed and tested in accordance with:

- NIJ 0115.00 – Stab Resistance of Personal Body Armor

This standard defines the test methods and performance requirements for resistance to knife and spike threats, including controlled impact energy and penetration limits. Tested according to NIJ 0115.00 in levels: P1-E2 and SPK1-E2



Our company pays attention to the quality controlling, researching, developing and the environmental protection.

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ATF71 Anti-Stab Insert

by SPECTRA SOL

TECHNICAL MATERIALS

ATF71 Anti-Stab Insert



SPECTRA
PROFESSIONAL FABRICS MILITARY/POLICE/INDUSTRY
SOLUTION

ATF71 Anti-Stab Insert

by SPECTRA SOL

The insert is engineered to deliver professional-grade protection without restricting mobility, making it suitable for operational and everyday use.

Purpose and Application

The ATF71 anti-stab insert is a personal protective solution designed to protect the front and back torso against:

- Stabbing attacks with sharp or pointed weapons (knife, spike, screwdriver)
- Slashing and cutting attacks
- Multiple successive strikes



Key features

- Flexible, lightweight design
- Protection against stabbing and sharp-point threats
- Suitable for police, military, and civilian applications
- Compatible with various jacket and vest systems

The insert is suitable for integration into:

- Military jackets and tactical garments
- Police and law-enforcement jackets
- Private security equipment
- Civilian covert protective clothing

The ATF71 anti-stab insert is designed for integration into police jackets, military jackets, and civilian protective garments. It provides reliable protection against knife and spike attacks while maintaining a flexible and lightweight construction, ensuring comfort during extended wear.

Key Advantages

1. Extremely High Strength

UHMWPE fibers provide very high tensile strength while remaining significantly lighter than traditional materials such as steel or aramid. This enables strong yet lightweight protective solutions.

2. Low Weight

Due to its very low density, ATF71 contributes to reduced overall garment or equipment weight, improving wearer comfort and mobility during prolonged use.

3. Excellent Cut and Abrasion Resistance

ATF71 offers outstanding resistance to cutting, tearing, and abrasion, making it highly suitable for protective clothing and equipment exposed to mechanical hazards.

4. High Chemical and Moisture Resistance

The material is highly resistant to most chemicals, oils, and solvents, and it does not absorb moisture, maintaining performance even in wet or humid environments.

5. Low Coefficient of Friction

Naturally smooth surface and very low friction, reducing wear and improving durability in applications involving repeated movement or contact.

6. Flexibility and Comfort

Compared to many high-strength materials, ATF71 remains flexible and comfortable, allowing improved ergonomics in garments and protective systems.

7. Corrosion and Rot Resistance

ATF71 does not corrode, rot, or degrade due to mildew, making it suitable for long-term use in demanding outdoor and industrial conditions.

8. Durability and Long Service Life

Thanks to its high wear resistance and environmental stability, ATF71 components typically have a long operational lifespan, reducing maintenance and replacement costs.



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STANDARD 100

Energy Absorbed & Distributed → No Penetration

ATF71 = TOP PRODUCT by SPECTRA SOL