



Tech sheet



Sizes: M/W 38 – 45½ (with ½ sizes) + 46 (no ½ sizes)

Upper: Single Mesh TPEE + Stretch Nylon

Lining: Non-Dyed Microfiber Stretch Textile

Sole: TECH-AR/01

Stack Height : Heel 26mm - Forefoot 20mm

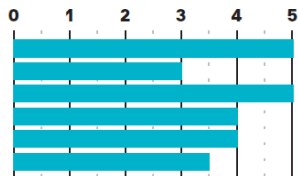
Drop: 6 mm

Weight: 235 g (½ pair size 42)

SRP: 220€ - draft

Focus

Lightness
Cushioning
Rebound
Protection
Stability
Traction



Technologies

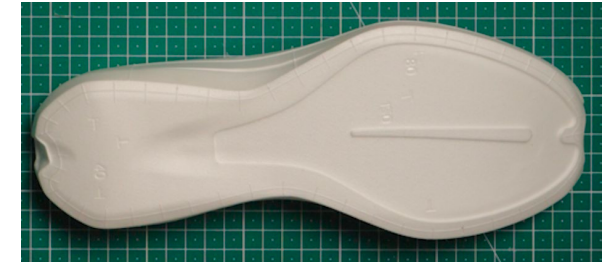
SOCK-FITPLUS
BY SCARPA

Technical Partners



Midsole

100% Aliphatic-TPU Super Critical Foam (SCF) - one layer



Engineered from **100% Aliphatic-TPU (A-TPU)** and expanded via **Nitrogen (N₂) super-critical infusion**. Unlike standard or common EVA blends and SCF Foam, the aliphatic molecular structure ensures peak purity, converting impact force into pure propulsion.

Core Technical Specifications

- **Density: 0.11** Specific Gravity | Ultra-Lightweight.
- **Hardness: 45C** | The perfect balance between protection and stability on technical terrain.
- **Elastic Efficiency: Rebound ≥76%** | Top-tier energy return.

Competitive Advantages vs. Market Standards

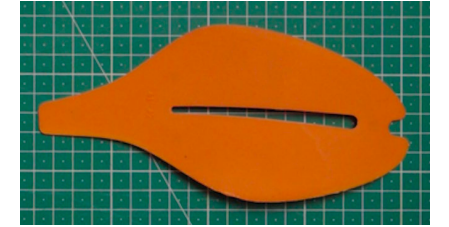
- **Vs. EVA/Blends:** While EVA dissipates energy and suffers from structural collapse (250-300km), A-TPU functions as a mechanical spring. The super-critical closed-cell structure eliminates the "bottoming out" effect typical of low-grade blended materials.
- **Vs. Pebax:** Aliphatic-TPU is built for endurance. It maintains **physical-mechanical properties longer over time**, preventing the rebound decay often seen in Pebax-based foams.
- **Total Resilience:** The stable aliphatic chain ensures superior UV resistance and consistent performance across high temperatures range.



Plate

Nylon + 20% Glass Fiber

Adaptive propulsion plate



Core Technical Specifications

- **Advanced Composite:** The integration of 20% Glass Fiber into the PA12 Nylon (78 Shore D hardness) enhances the plate's elastic modulus, ensuring a snappier response and total protection against sharp rocks (rock-plate function).
- **Uphill Propulsion:** The longitudinal stiffness is calibrated to act as a mechanical lever, reducing fatigue and providing reactive propulsion during steep climbs.

Functional Design: Transverse Flex Geometry

Unlike standard rigid plates that can compromise stability on uneven terrain, our plate features a **central split design**:

- **Downhill Adaptability:** The central slit allows for controlled **transverse flexion**. When the foot lands on non-planar surfaces (roots, angled rocks), the plate adapts torsionally.
- **Control & Stability:** This torsional flexibility prevents the shoe from enaunce rigidity and create an not controlled underfoot-lever, ensuring the outsole maintains maximum ground contact for consistent support and safety.

Outsole

VIBRAM® Megagrip | 4mm



The outsole is engineered to maximize control on the most technical and slippery terrains, combining the industry-leading compound with a dynamic lug orientation design.

Technical Specifications

- **Megagrip Compound:** High-performance rubber compound offering unparalleled grip on both wet and dry surfaces, while ensuring superior durability.
- **4mm Lug Depth:** The ideal balance between deep traction on soft mud/dirt and stability on rock and hard-packed trails.
- **Traction-Oriented Design:** Lug walls are engineered with an **orientation perpendicular to traction forces**. This functional design allows the outsole to "bite" the ground precisely in the direction of propulsion and braking.

Core Benefits

- **Propulsion Efficiency:** The perpendicular wall alignment minimizes slippage, converting the runner's energy directly into forward momentum.
- **Downhill Confidence:** The wall design optimizes braking power, ensuring pinpoint stability even on steep technical descents.
- **Self-Cleaning Geometry:** The layout is optimized for rapid mud and debris release, maintaining consistent grip performance throughout the run.

Upper

TPEE & Nylon



Materials Engineering & Evolved Comfort

- **Composite upper:** The combination of **TPEE (Thermoplastic Polyester Elastomer)** and **High-Strength Nylon** fibers creates a dual-function structure. The Nylon provides the necessary rigidity to stabilize the foot during lateral thrusts, while the TPEE adds calibrated elasticity, ensuring constant comfort without compromising support.
- **Integrated Sock & Debris-Shield:** The integrated sock construction precisely wraps the ankle, creating a barrier against debris and rocks. This design eliminates all pressure points, allowing you to maintain total focus on your run.
- **Water-Ready:** The materials does not absorb water, ensuring the shoe stays light even in wet conditions. It dries ultra-fast, preventing weight gain and keeping your focus. Stay light, stay fast.

Fit & Connection: Anatomy in Motion

- **Asymmetrical Lacing:** The closure system follows the anatomy of the instep, respecting the natural foot-shape to eliminate constriction and pressure point.
- **Uniform Wrapping:** Thanks to the alternated positioning of the eyelets, the upper envelops the foot homogeneously. Once laced, it achieves a unique **"second-skin" effect**: the shoe perfectly adheres to every curve of the foot, reducing internal "dead space and chafing".

The Result: Seamless Connection

The union of advanced materials and anatomical design transforms the shoe into a direct extension of the body. Every movement of the foot is instantaneously transmitted to the ground, allowing foot and shoe to move **all in one**.



In-Box Accessories

Professional Shoehorn: Included to facilitate entry into the snug, sock-like construction. It ensures a quick, smooth fit and immediate upper positioning while protecting the integrity of the integrated collar.

3D-Performance Laces: An additional set of laces featuring a high-friction 3D texture. Engineered for maximum functionality, they enhance grip through the eyelets to maintain constant tension and prevent slippage on technical terrain.



Tech sheet



Sizes : M/W 38 – 45½ (with ½ sizes) + 46 (no ½ sizes)

Upper : Single Mesh TPEE + Stretch Nylon

Lining : Non-Dyed Microfiber Stretch Textile

Sole : TECH-AR/02

Stack Height : Heel 38mm - Forefoot 32mm

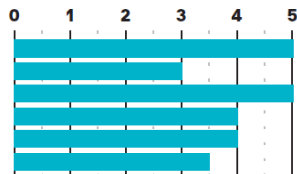
Drop : 6 mm

Weight : 295 g (½ pair size 42)

SRP : 250€ - draft

Focus

Lightness
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Traction



Technologies

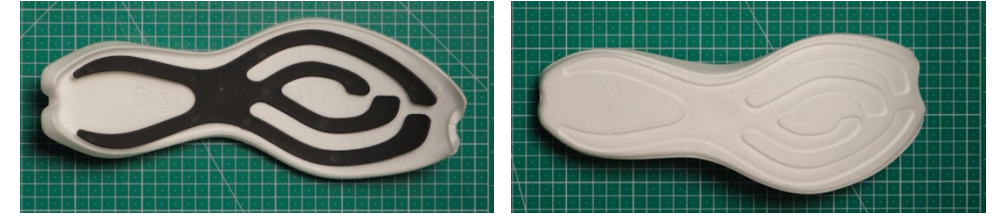
SOCK-FITPLUS
BY SCARPA

Technical Partners



Midsole

100% Aliphatic-TPU Super Critical Foam (SCF) - two layer



Engineered from **100% Aliphatic-TPU (A-TPU)** and expanded via **Nitrogen (N₂) super-critical infusion**. Unlike standard or common EVA blends and SCF Foam, the aliphatic molecular structure ensures peak purity, converting impact force into pure propulsion.

Core Technical Specifications

- **Density: 0.11** Specific Gravity | Ultra-Lightweight.
- **Hardness: 45C** | The perfect balance between protection and stability on technical terrain.
- **Elastic Efficiency: Rebound ≥76%** | Top-tier energy return.

Competitive Advantages vs. Market Standards

- **Vs. EVA/Blends:** While EVA dissipates energy and suffers from structural collapse (250-300km), A-TPU functions as a mechanical spring. The super-critical closed-cell structure eliminates the "bottoming out" effect typical of low-grade blended materials.
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- **Total Resilience:** The stable aliphatic chain ensures superior UV resistance and consistent performance across high temperatures range.

Propulsion Plate

Pebax® + 30% Carbon Fiber



Performance Engineering: Materials, Architecture, and Synergy

- **Material Excellence:** The plate's core is built from **Pebax®**— renowned for its superior energy return and thermal resilience, reinforced with **30% Carbon Fiber**. This composite enhances the elastic modulus, creating a high-response structure that acts as a powerful mechanical spring. It ensures consistent energy return and long-term structural integrity without adding weight.
- **Adaptive Architecture: Centering & Segmentation** The plate's design is engineered for dual-mode functionality:
 1. **Heel & Mid-foot Stabilization:** The dual heel elements and central core work to **center and stabilize the strike**. This is critical for maintaining control on uneven ground and providing security during descent and high-speed section.
 2. **Element Forefoot Segmentation:** The "tentacle" design allows for independent torsional flexion. While it provides a unified propulsive lever for uphill climbing, it enables the shoe to adapt to ground irregularities, ensuring maximum traction and confidence.
- **Systemic Outcome: Synergy with A-TPU Midsole** Working in total harmony with the **Aliphatic-TPU midsole**, the plate optimizes the overall running economy. The A-TPU's high-rebound cushioning is stabilized and guided by the carbon architecture, **drastically reducing muscle fatigue**. This integrated system allows the runner to conserve vital energy, translating into sustained speed and performance over Ultra distances.

Outsole

VIBRAM® Megagrip | 3mm



The balance between dynamic traction and biomechanical fluidity

Specifically engineered for Ultra-distance racing where pace and energy efficiency are key, this outsole combines the industry-leading **Vibram® Megagrip** compound with cutting-edge lugs, properly designed.

Traction & Rolling Engineering

- **Low-Profile Performance:** The **3mm lug depth** is calibrated to reduce friction and peripheral weight, minimizing energy loss caused by too high ground traction. This technical choice promotes superior gait fluidity and an extremely smooth heel-to-toe transition.
- **Adaptive Lug Mapping:** Lug placement follows a **modulated mapping** based on foot strike patterns. This ergonomic synergy ensures a maximized functional contact areas, optimizing the overall stability.
- **Traction-Oriented Geometry:** Lug walls are strategically **aligned perpendicular to traction forces**. This functional design allows the outsole to bite the ground precisely in the direction of propulsion and braking, ensuring consistent control on uneven terrain.

The Ultra-Runner's Advantage

The integration of a low-profile lug ensure a smooth stride while maintaining the grip required for wet and dry sections. The result is an outsole that works **in constant flow motion**.

Upper

TPEE & Nylon



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