

Bio-based and Green Wide-spectrum Antimicrobial Deodorant Socks

生物基绿色广谱抗菌抗病毒除臭袜

【Product Introduction】

This product adopts the eco-friendly MPHA patented antimicrobial finishing technology developed by the research team of The Hong Kong Polytechnic University. It has passed testing in accordance with textile antimicrobial performance standard GB/T 20944.3-2008 and obtained a "Level 7A" rating. It still delivers outstanding antimicrobial efficacy even after 150 wash cycles.

【Technology Overview】

The patented bio-based MPHA antimicrobial finishing technology uses MPHA, a safe and eco-friendly antiviral and antimicrobial material. Non-toxic to humans and the environment, it is also hypoallergenic for human contact. Boasting high stability, the material maintains antiviral and antimicrobial performance for more than one year. The effective duration can be further extended by adjusting process parameters. **This technology has won a host of international awards, among which are the Gold Medal at the 48th Geneva International Exhibition of Inventions and the Gold Medal at the 2023 Asia International Innovation & Invention Exhibition.**

【Product Comparison】

Conventional Socks	ECOLAR® Antimicrobial Deodorant Socks
Weak antimicrobial effect	✓ Long-lasting antimicrobial effect
Odor-prone	✓ Persistent odor control
Low needle count, subject to deformation & pilling	✓ 200-needle high-count high-density
Seamed design Poor comfort	✓ One-piece knit
	✓ High comfort, wear & wash resistant
	✓ Ideal for sports and daily use

【Key Advantages】



Broad-Spectrum Antimicrobial

>99% antimicrobial rate, effective after 150 wash cycles.



Long-Lasting Odor Control

Breaks down odor molecules, keeps feet fresh-dry.



One-Piece Knit Construction

200-needle high-count high-density knit, ergonomic, comfortable & durable.



Multi-Purpose Use

Functional for sports and daily commuting.



Eco-Friendly & Sustainable

Fully biodegradable.

【Structural Analysis】

200-Needle High-Count High-Density Knitting, One-Piece Construction

Fine texture & breathable, durable against wear and washing. Smooth conforming fit with no rubbing, effectively reducing friction between feet and sock surface.

Elastic Rib Cuff

Comfortable without constriction; stays in place even after long-time wear.

Contoured Heel Design

Foot-hugging fit, keeps from slipping or shifting; comfortable and wear-resistant.

Seamless Toe Closure

Smooth and comfortable, no irritation to toes.

Soft Arch Support Wrap

Ergonomic fit with zero restraint; soft rebound for shock absorption and foot protection.

【Product Information】

Size: Men's One Size

Fabric Composition: 67% Combed Cotton, 30% Nylon, 3% Spandex

Care/Washing Instructions:



【Available Colors】



时尚浅灰/Light Gray 经典黑色/Black

【Packaging Display】

