

Livinguard AO

Next-gen biocide-free odor control technology, inspired by nature & powered with environmentally-friendly ingredients. Empowers textiles with a surface charge to enable a unique odor adsorption mechanism - attracts, adsorbs and neutralizes unpleasant odor molecules (such as isovaleric acid) to prevent the formation of 'permastink'.



OUR TECHNOLOGY EXPLAINED Washing Washing Washing Image: Surface is refreshed and neutralized on the surface Washing cycle releases the residue of neutralised od or molecules

ABOUT LIVINGUARD

- Proprietary technologies with over 200 patents filed
- In-house capabilities with own microbiology & applications labs
- Unique expertise across applications and industries
- True partnership with deep collaboration & co-development

Livinguard Technologies is a Swiss material science company focused on enhancing the functionality & performance of materials across various applications through the power of surface charge.

Non-Stop Freshness



BENEFITS



Nonstop fresh: Proven to reduce up to 99% of odor as per ISO 17299-3 even after washing

Effective even on polyester: Provides consistent performance across all fabrics (esp. also polyester) where other odor control technologies fall short and odor build up remains a concern



Biocide-free: Powered with environmentally friendly active ingredients that do not require BPR or EPA approvals or labeling



Heavy metal free: Safer for people and planet (unlike traditional, harsher biocides like silver, copper, zinc that have been identified as potentially harmful)

Durable: Works non-stop even without washing and for the entire product life



Sustainable: Reduces the number of washing cycles and allows for washing at lower temperatures



Skin-safe: Tested for skin safety as per ISO 10993-5

Easily applied: Water-based liquid formulation applied through padding, kiss roll, exhausting or spraying with thermal curing as a finishing during the textile production process

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Made in Switzerland: Swiss innovation, quality & reliability – globally available, manufactured by bluesign system partner



Livinguard AO Positive Charge	Antimicrobial technologies	Odor-capture technologies	Odor-masking technologies
Adsorbs and neutralizes odor at the molecular level through surface charge	Reduces odor causing bacteria to prevent odor buildup	Absorbs odor through mesoporous high surface area particles	Masks odor through fragrance
 Biocide-free & heavy- metal free Efficacious across broad range of odor 	 Biocidal products with increasing regulatory scrutiny due to safety & environmental concerns creating complexity for brands Decreasing efficacy over the course of the product lifetime of the textile due to leaching mode of action 	 Typically more expensive vs. alternative technologies Saturation between wash 	 No actual reduction of odor, but only masking through fragrance Decreasing efficacy over the course of the product lifetime of the textile due to leaching mode of action
 sources & substrates Durable performance & safety due to non-leaching mode of action Cost effective 		 cycles decreasing efficacy Increasing scrutiny due to concerns around human toxicology 	
	Limited efficacy on odor not caused by bacteria		

APPLICATIONS

Everyday Apparel & Formal Wear

Pet Products

Outdoor gear Home Furnishings &

Upholstery

Sportswear &

Underwear & Base Layers

Household Textiles Uniforms & Workwear

Reusable Personal Hygiene

CONTACT

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WHAT SETS US APART