

# Graphene-X Launches LATTICE on Kickstarter: Watch Straps Woven With Graphene, Built by a 50-Year Swiss Strap House

*68% of tested smartwatch bands show PFAS. Graphene-X rebuilds the 1973 NATO British military strap PFAS free: graphene yarn and Grade 2 titanium hardware.*

HONG KONG, August 14, 2026

/EINPresswire.com/ -- [Graphene-X](#), the performance apparel brand building products around graphene and other advanced materials, has launched its fourteenth [Kickstarter](#) campaign: [LATTICE](#), a line of watch straps woven from graphene-integrated nylon with Grade 2 titanium hardware, manufactured by Braloba, the Swiss strap house supplying the watch industry since 1976. The campaign reached its funding goal in less than 30 minutes and stands at 323% funded.



Launched in Kickstarter

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Your watch strap is the most-worn textile you own, and the industry never treated it like one.”

*Jorge Barros*

The most-worn textile nobody fully tested. A watch strap touches the wearer's skin for twelve or more hours a day, longer than any garment. In a 2024 peer-reviewed study (Environmental Science & Technology Letters, University of Notre Dame), 68% of tested smartwatch bands showed elevated fluorine, the chemical marker of PFAS; nine contained the forever chemical PFHxA at concentrations

up to 16,662 parts per billion. The source is fluoroelastomer, the synthetic rubber used in many premium sport bands. The study's authors advised consumers to choose woven nylon instead.

Built the opposite way. LATTICE contains no fluoroelastomers and no fluorinated compounds at any production step. Its webbing is woven entirely from graphene-integrated nylon: graphene oxide blended into the polymer at 1% by weight and melt-spun into the fiber itself, never applied as a coating. Third-party testing of the graphene fiber measured 99% antibacterial inhibition after 50 wash cycles (Tentamus, FZ/T 73023-2006 Appendix D8), a sequencing the brand

highlights deliberately: surface treatments such as silver and copper deplete with washing, while encapsulated graphene has nothing to shed. In tensile testing at Braloba's facility, the webbing sustained 2,000 newtons, roughly the pull of a 200-kilogram load, with no damage recorded; 2,000 newtons is the ceiling of the test rig used. The lab reports are published on the campaign page.

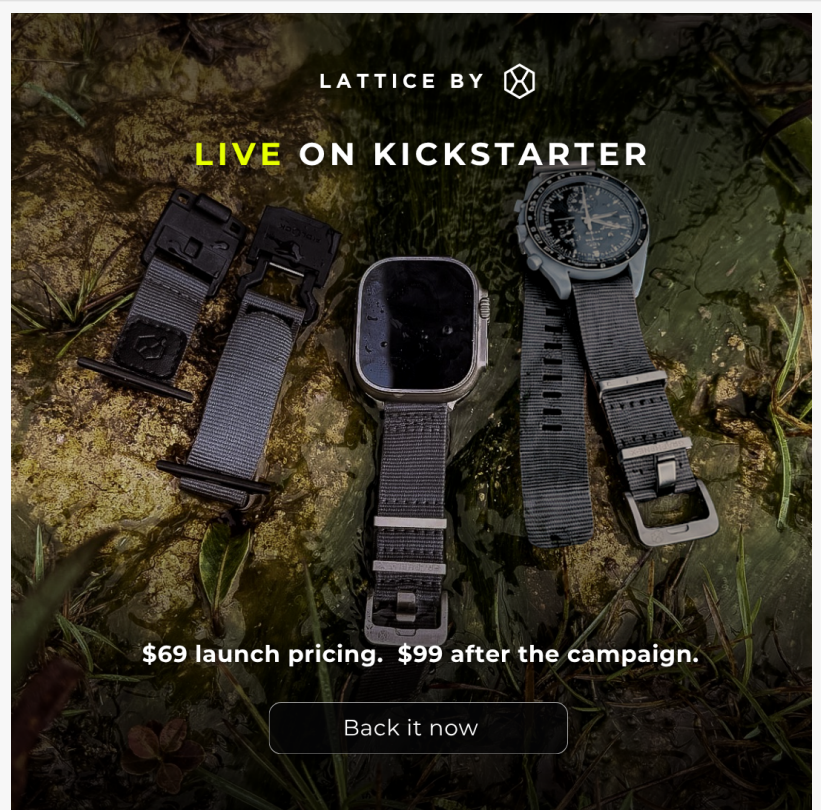
The 1973 design, kept. LATTICE retains the geometry of the strap the British Ministry of Defence commissioned in 1973, known to collectors as the G10 or NATO: the configuration that keeps a watch on the wrist even if a spring bar fails. Two models launch the line, both in a single colorway, Graphene Grey, both with Grade 2 titanium hardware

carrying the Graphene-X name carved in the metal: the LATTICE NATO 20 Titanium for any watch with 20mm lugs (13.96 grams complete), and the LATTICE AW Buckle Titanium for Apple Watch (44, 45, 46, 49mm, and legacy 42mm cases). A third model, the magnetic-closure LATTICE AW Fidlock, unlocks for all backers when the campaign passes \$40,000.

"Your watch strap is the most-worn textile you own, and the industry never treated it like one," said Jorge Barros, founder and CEO of Graphene-X. "We ran ours to the ceiling of a 2,000-newton rig and the machine quit before the strap did. That is the level of scrutiny something you wear twelve hours a day deserves. We kept the geometry the Ministry of Defence got right in 1973 and rebuilt the yarn itself, with a Swiss house that has made straps for the watch industry for fifty years."

Manufactured by Braloba. LATTICE is built by Braloba, a Swiss family company founded in Biel in 1976, manufacturing straps for the world's leading watch and wearable brands in company-owned factories with full in-house quality control. The campaign video was filmed inside Braloba's testing room: tensile pulls, abrasion cycles, wash testing, and hardware cycling.

Pricing and availability. LATTICE is live on Kickstarter through September 1, 2026, at \$69 per strap, with bundles from \$119. Retail pricing after the campaign is \$99. Delivery is scheduled for December 2026. Campaign page: <https://www.kickstarter.com/projects/ikigaiventures/lattice-by-graphene-x-watch-straps-woven-with-graphene?ref=7r2nox>



Field tested

About Graphene-X. Graphene-X is a Hong Kong-based performance apparel brand engineering clothing and gear from advanced materials including graphene, aerogel, and boron nitride. The brand has run 13 successful Kickstarter campaigns, raising over \$3 million from more than 30,000 backers in 100+ countries with zero failed deliveries, and received the ISPO Innovation Prize 2024 for its AeroGraph Puffer Jacket. Graphene-X is certified by the Advanced Carbons Council. More at [graphene-x.com](https://graphene-x.com).

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