



Graphene Innovation Experts

World's only Trillion Dollar Nanomaterial
Leading 4th Industrial Revolution

ABOUT US

Monoatom Labs, founded by 6-time President of India Awardee Sushanth Patnaik and business leader Aayush Bansal, bridges breakthrough graphene research with large-scale industrial deployment. Supported by scientists from IISc, IIT, and NCL, we turn lab-scale innovations into commercially viable, high-performance material solutions. We push boundaries, redefine performance standards, and build graphene-based technologies that advance industries including aerospace, defence, clean energy, solar, construction, tyres, chemicals, filtration, performance textiles, and engineered polymers.

OUR UNIQUE APPROACH

At Monoatom Labs, we have developed a graphene production process combining innovation and sustainability. Unlike conventional methods that are expensive and waste-heavy, our approach delivers 99.9% pure, few-layer graphene at 1/10th the industry cost, while keeping emissions and resource use to a minimum.



ceo@monoatomlabs.com



www.monoatomlabs.com



KEY HIGHLIGHTS

- Up to 15% More Mileage
- Cleaner Emissions
- Smooth Performance
- Universal Compatibility

THERMAPHENE

LIGHTWEIGHT WINTER WEAR

Smart thermal protection jacket using graphene-based heating elements and/or thermal management layers for extreme cold and hot environments.

COST-BENEFIT ANALYSIS

- Power: Small battery pack for active heating, multi-hour operation
- Use Cases: Defense, cold storage, mining, line-men, high-altitude crews

COMPETITIVE MATRIX

Feature / Player	Your Graphene Polymer Concrete Additive	Universal Matter – Genable™ Concrete / Decarbonizer	Graphenemex® GO Concrete Additive	Concrene® Graphene-Reinforced Concrete
Form	Liquid graphene-polymer admixture	Graphene-based liquid admixture for concrete	Multipurpose GO nano-additive for concrete/mortar	Full graphene mix design concept
Key Benefits	Strength ~35%, crack control, water tightness, cement reduction tailored to local mixes	Strength, 20%+ cement cut, up to 30% CO ₂ reduction	Waterproofing, anti-corrosion, strength, thermal & antimicrobial benefits	25% stronger & 4x less permeable vs traditional concrete
Differentiation	Designed for Indian codes, infra use cases and cost targets	Strong decarbonisation pitch, North America focus	Wide property improvement, LatAm focus	IP-heavy mix design, not just an additive