



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.



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KEY HIGHLIGHTS

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

GRAPHACRETE

CONCRETE STRENGTH ENHANCEMENT

Graphene / graphene oxide membrane modules for desalination, heavy metal removal, industrial wastewater and high-purity process water.

COST-BENEFIT ANALYSIS

- Graphene Layer: few-layer/GO coating or laminate
- MWCO: $\approx 200\text{--}800$ Da variants
- OPEX Benefit: Lower energy + lower cleaning chemical use vs conventional RO

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 $\sim 35\%$, 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 & 4 $\times$ 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