



G2G GRAPHENE IN GALSS



HOW G2G GRAPHENE IS INTEGRATED INTO GLASS MANUFACTURING

G2G produces ultra-pure, multi-layered graphene (99.9%) specifically engineered for advanced industrial applications. In the case of conductive glass, the graphene is not applied as a surface coating, but fully embedded during the glass manufacturing process for maximum performance and durability.



Contact us



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MAIN PROCESS STAGES:

1. Nano-Level Dispersion

G2G Graphene powder is uniformly dispersed into a sol-gel or silicate-based mixture. This ensures even distribution at the nanoscale without affecting transparency.

2. Raw Material Blending

The graphene-infused mixture is blended with the molten glass batch materials prior to melting, enabling deep integration at the structural level.

3. High-Temperature Melting

During melting (approx. 1500°C), the graphene bonds physically and chemically with the glass matrix, maintaining its integrity and forming a conductive, transparent structure.

4. Controlled Cooling & Annealing

The glass is cooled and annealed under controlled conditions to stabilize the embedded graphene and ensure consistent conductivity across the surface.

Advantages of In-Process Graphene Integration:

- Superior Thermal & Mechanical Stability – No delamination or wear over time
- Uniform Electrical Conductivity – Across the entire glass surface
- Maximum Optical Transparency – No impact on visible light transmission
- Long-Term Performance – Maintenance-free and highly reliable

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