



Material Challenges and Opportunities for Urban Air Mobility

Composite materials will be at the heart of Urban Air Mobility (UAM) to provide energy efficient, reliable, and cost-competitive transportation vehicles.



Make it Green

- Reduced structure weight reduces **energy** consumption
- Additive manufacturing reduces material **waste**
- Materials can be repaired, repurposed and **recycled**



Make it Safe and Comfortable

- Proven safe and reliable through years in the **aerospace** industry
- **Non-corrosive** and fatigue resistant
- Honeycomb core materials can dampen noise to provide a **quieter** ride
- Tunable for electromagnetic frequency leading to reliable and safe **communications** between sensors and air traffic



Make it Affordable

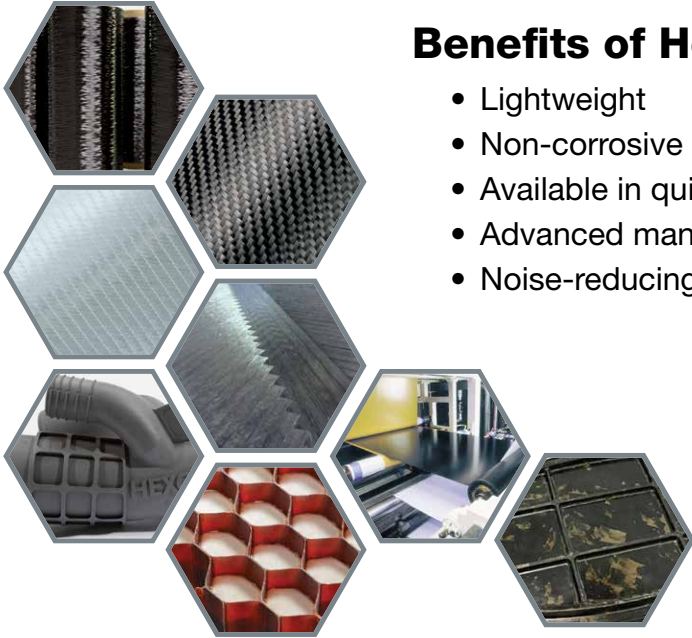
- Requires minimal capital equipment and tooling allowing you to **scale** economically
- Manufacturing **automation** through robotic lay-up and assembly, infusion, compression molding and additive manufacturing
- Faster cure and processing times leading to higher **production** rates



Scan the QR code or go to www.hexcel.com/UAM-AAM for more information



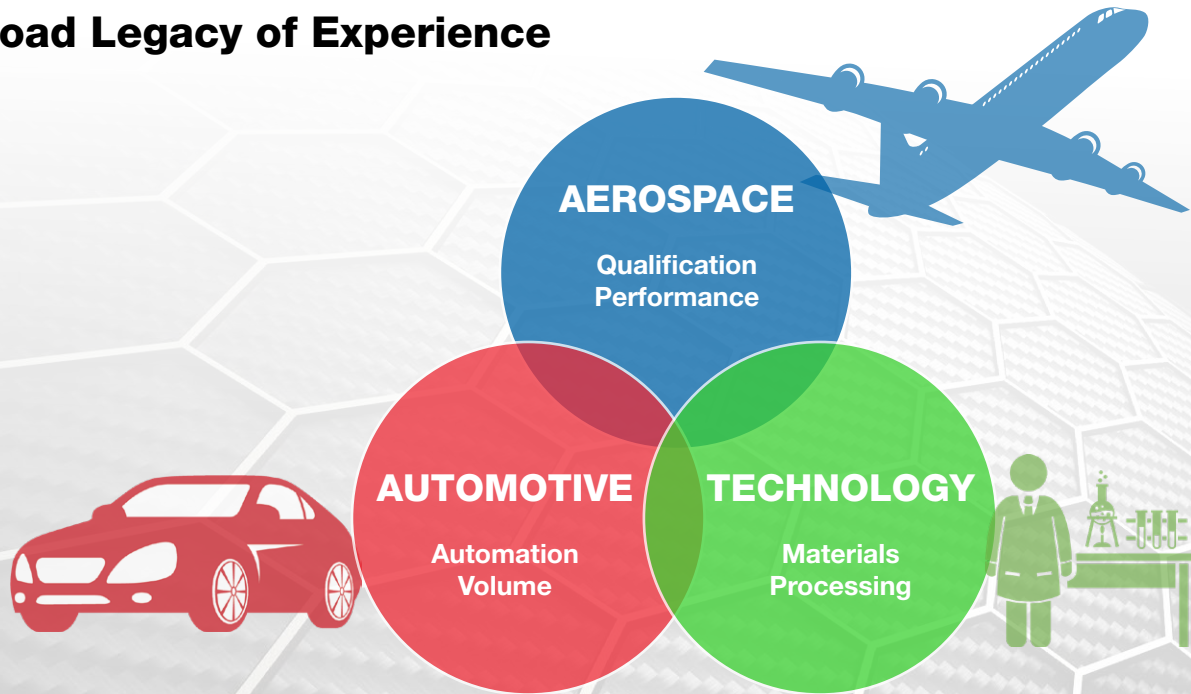
What makes Hexcel composites your ideal materials solution?



Benefits of Hexcel's Advanced Composites

- Lightweight
- Non-corrosive
- Available in quick-cure & out-of-autoclave solutions
- Advanced manufacturing methods
- Noise-reducing solutions

Broad Legacy of Experience



www.hexcel.com For more information, contact us at emergingmarkets@hexcel.com

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