



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

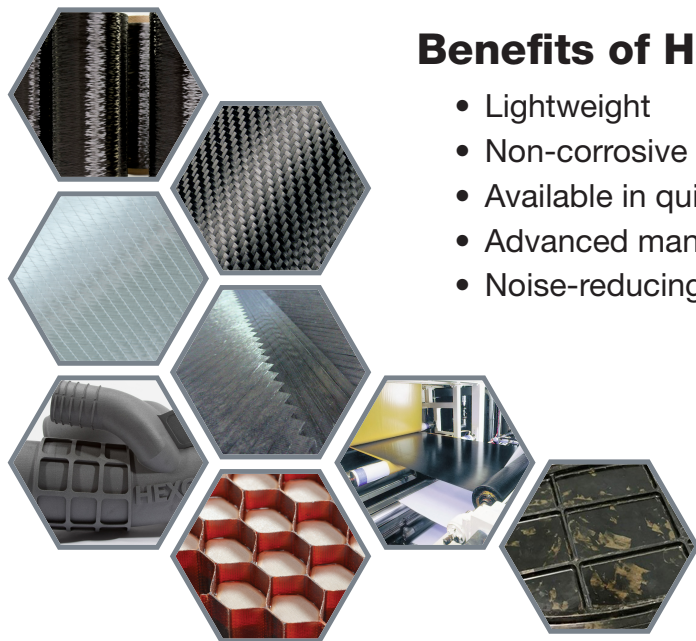
- Requires minimal capital equipment and tooling allowing you to **scale** economically
- Manufacturing **automation** through robotic lay-up and assembly, infusion, compression molding and additive manufacturing
- Faster cure and processing times leading to higher **production** rates



*Scan the QR code to access a full report on
Material Challenges and Opportunities for Urban Air Mobility*



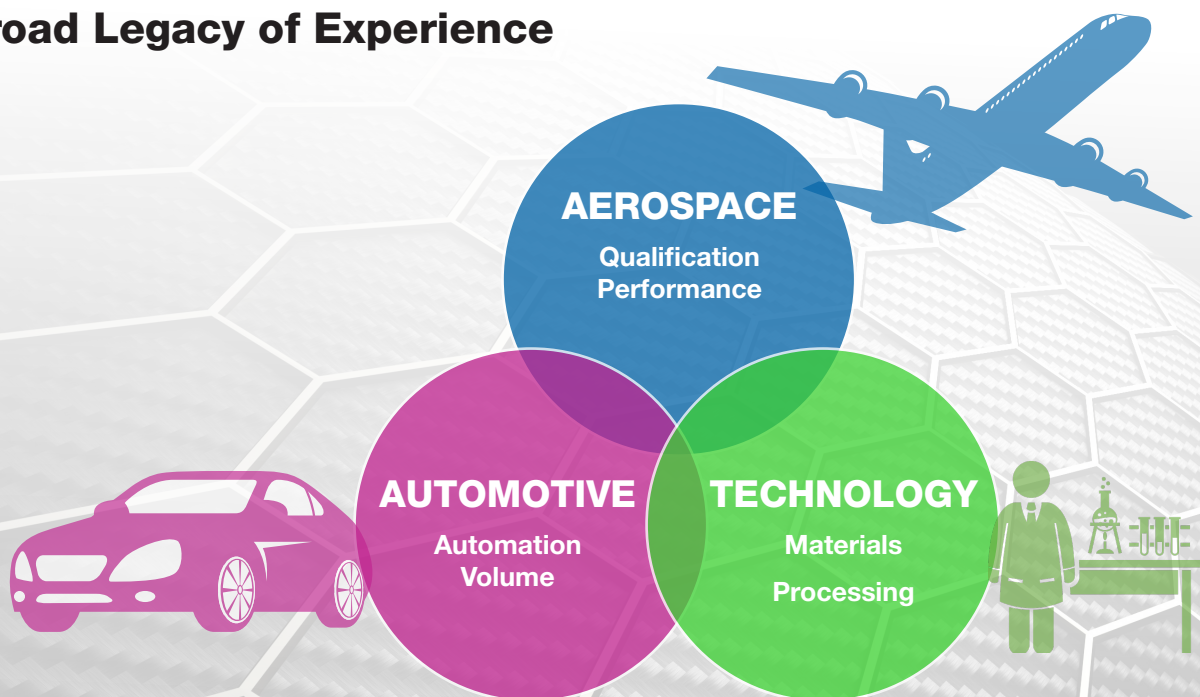
What makes Hexcel composites your ideal materials solution?



Benefits of Hexcel 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

©2022 Hexcel Corporation – All rights reserved. Hexcel Corporation and its subsidiaries ("Hexcel") believe that the technical data and other information provided herein was materially accurate as of the date this document was issued. Hexcel reserves the right to update, revise or modify such technical data and information at any time. Any performance values provided are considered representative but do not and should not constitute a substitute for your own testing of the suitability of our products for your particular purpose. Hexcel makes no warranty or representation, express or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose, and disclaims any liability arising out of or related to, the use of or reliance upon any of the technical data or information contained in this document.

