



Industry Trends in Composites Manufacturing



Jeff Sloan



Outline Mon Sep 14 2020

39 frames

Current Trends and Future Outlook of Advanced Composites



Jeff Sloan, editor, CompositesWorld
Technology AdvantEDGE Series
Denver, CO; February 2019

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View

World of Composites

- Aerospace
- Automotive
- Energy
- Sustainability

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Composites 101

Fiber reinforcement



- Carbon or glass fiber
- Continuous or chopped

Resin matrix



- Usually liquid
- Thermoset-based
- Epoxy
- Polyester
- Vinyl ester

Process



- Prepreg
- Infusion
- Resin transfer molding
- Filament winding
- Compression molding
- Pultrusion

Properties



- Light weight, high strength
- Toughness
- Corrosion resistance
- Blessing/curse

Markets



- Aerospace
- Automotive
- Wind
- Marine
- Sporting goods
- Industrial
- Corrosion
- Consumer

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Current Trends and Future Outlook of

Composites 101

Sustainability **Advanced Composites**

Fiber reinforcement

Process

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Resin matrix

Carbon fiber recycling

Recycling market

- Prepreg

Prezi



Products



Company



Support



Languages

