

CONTINUOUS COMPOSITE SYSTEMS™  
(CCS™)

## Composite Reinforcement with Ultra-High Strength-to- Weight Ratio.

CCS™ enables ultra-strong, lightweight structures at cost-competitive rates. The CCS™ continuous fiber-reinforced materials can be used as a main structure, combined with sealants or structural adhesives to create a unified macrostructure, or combined with injection molding.

[ccs.llproducts.com](http://ccs.llproducts.com)

CONTINUOUS COMPOSITE SYSTEMS™ (CCS™)

## Enhanced Strength and Rigidity.

Our CCS™ technology combines highly engineered sealants and adhesives with a fiber-reinforced composite carrier in a two-dimensional profile designed to provide strength, stiffness, and rigidity to a lightweight structure.



2022 Altair Enlighten Award for vehicle weight savings in composite seatback.

### KEY PRODUCT ATTRIBUTES

- Mass: 75% lighter than steel; 30% lighter than aluminum
- Corrosion resistant
- Nonconductive and insulating with a low coefficient of thermal expansion
- Excellent structural properties
- High predictability in energy management
- Consistent quality and dimensional accuracy

### ENGINEERING EXPERTISE FOR EVERY APPLICATION



#### STRENGTH

Ultra-high strength-to-weight ratio



#### EXPERTISE

In-house engineering expertise



#### PROCESS

Seamless integration of adhesives



#### CAPABILITIES

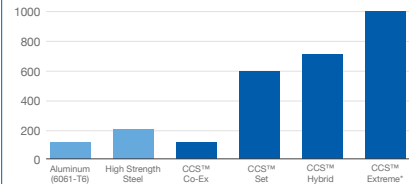
Advanced CAE capabilities



#### COMPETITIVE

Competitive pricing

### ULTRA HIGH STRENGTH-TO-WEIGHT RATIO



\*In development



Products	Application type	Markets of interest
CCS™ Co-Ex	Crash, NVH, tube reinforcement	Automotive
CCS™ Set	Crash, stiffness, insulating, part consolidation	Automotive, CV, Industrial, Architectural
CCS™ Hybrid	Crash, stiffness, metal replacement	Automotive, CV
CCS™ Extreme	Crash, stiffness, wind turbine spar caps	Automotive, Aerospace, Energy



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