

The ride is lighter  
despite the heavy loads



Tailored solutions for  
**AUTOMOTIVE**

[www.3ACcorematerials.com](http://www.3ACcorematerials.com)

# Best performance and value for Automotive

## Best total cost of ownership

All road transport applications strive for reduced structural weight. This not only delivers considerable fuel savings but also allows a higher payload which directly influence the operating cost (or revenue) of a vehicle. This is of particular interest for urban vehicles, hybrid or electrical cars, where reduced weight will significantly contribute to downsizing the powertrain and improving range.

Sandwich technology offers far greater potential weight savings than composites alone, but traditional core materials used in automotive – cars / trucks / buses – applications are generally not considered “structural”. **AIREX®** and **BALTEK®** sandwich cores are especially suited for high volume, low cost part production to support light-weighting trends and can enable designers and engineers to meet functional requirements in both interior and structural parts. **3A Composites Core Materials** has the product portfolio, the expertise and the toolset to optimize the design of any sandwich structure for any aerospace application.

Our **AIREX®** and **BALTEK®** products offer you 3 top advantages:

/ Weight reduction without sacrificing structure

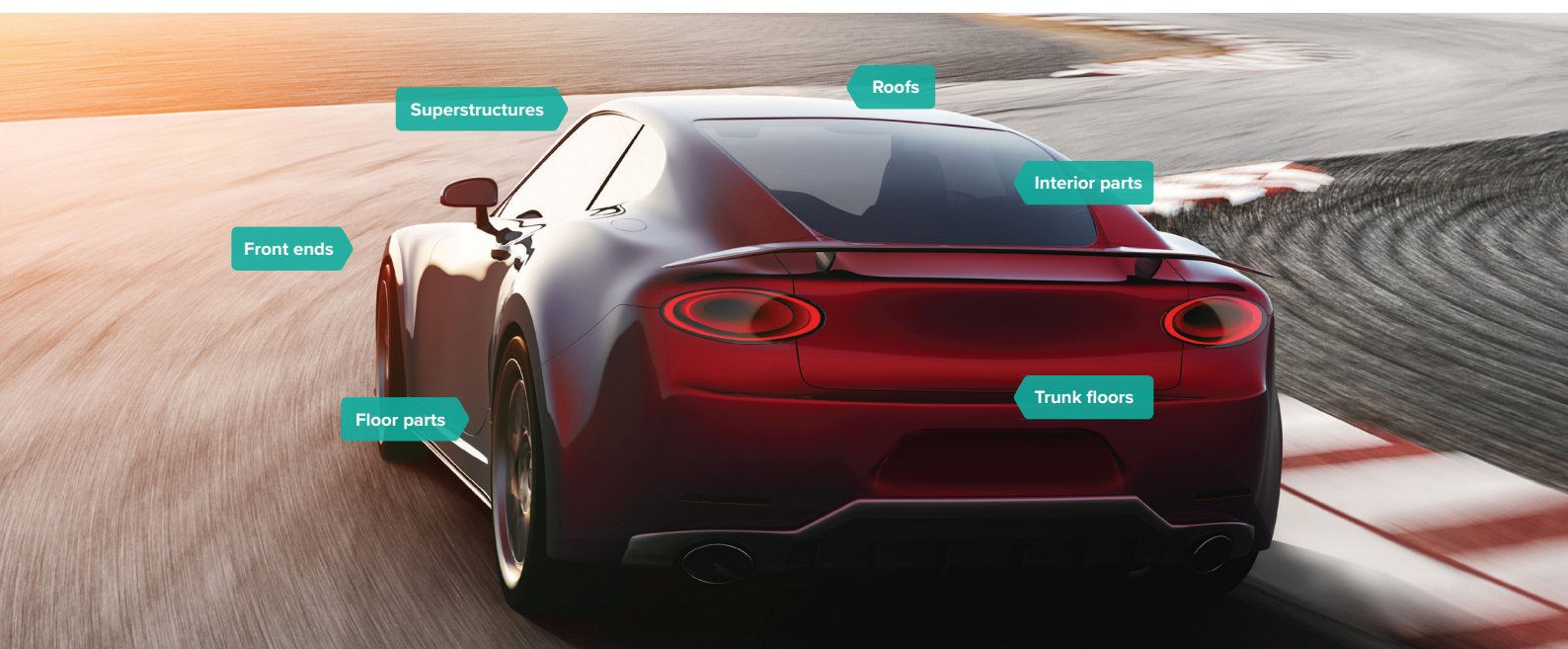
- / Improved thermal insulation & NVH (noise, vibration & handling)
- / Increased productivity with sustainability

We use our extensive know-how in the field of core materials and sandwich construction to provide best performing solutions for the challenging automotive and road applications.

For us, the deep understanding of the fundamental requirements of our customers and their applications is the basis for superior customer service. Based on this we can then offer solutions that are best suited to optimally meet or exceed our customers different needs. The result is the best material solution that will support our customers to be even more successful in their markets.

**3A Composites Core Materials** material solutions offer advantages to virtually any road segment such as:

- / Passenger cars (interior/exterior trim)
- / Recreational vehicles
- / Trucks (cab & trailer)
- / Buses
- / Specialized vehicles



# Our Automotive portfolio

## Especially suitable materials

Numerous applications lend themselves for sandwich applications:

- / Structural and semi-structural parts (e.g. upper body, lower body, front/side/rear closures and lid mechanisms, bumpers and spoilers bonnets, floors, etc.)
- / Interior parts (console, trim, furniture, etc.)

For automotive applications we particularly recommend the following materials:

Our family of sustainable & recyclable PET foam cores:

<b>AIREX® T92</b>	Widest variety of available densities
<b>AIREX® T10</b>	Next generation with excellent Surface quality
<b>AIREX® T90</b>	Fire resistant Very high temperature resistance Excellent thermal and sound insulation Superior mechanical properties Very high fatigue strength No moisture absorption Dimensionally stable Thermoformable
<b>BALTEK® SBC</b>	Exceptional mechanical properties Lightweight Very high temperature resistance Fire resistant From 3A Composites Plantations
<b>AIREX® C70</b>	Especially lightweight High mechanical properties No moisture absorption PVC foam

Various finishing options may be provided for easy handling, efficient processing, maximum resin savings and best laminate aesthetics.

**3A Composites Core Materials owns and manages through its forest companies, Plantabal S.A. and 3A Composites PNG Ltd., several thousand hectares of FSC®-certified balsa wood plantations in Ecuador (FSC-C019065) and Papua New Guinea (FSC-C125018).**

**3A Composites Core Materials is a global organizational unit within the 3A Composites Group, a part of Schweiter Technologies (SIX Swiss Exchange: SWTQ), with operations in Europe, the Americas, China, and Papua New Guinea.**

### Stronger, lighter, greener future

3A Composites Core Materials is a global leader with the broadest portfolio of high-performing and sustainable core materials with main focus on PET foam and balsa wood. We are the pioneers in sandwich technology with more than 80 years of experience.

Since the very beginning, our focus has been developing strong and solid, yet lightweight core materials, which allow manufacturing more durable, sustainable and energy-efficient end products for our customers. Our products also have the purpose of creating a stronger, lighter and greener future.

### We have innovation deeply planted in our core

Each of our products is a result of profound expertise and advanced thinking of our engineers, working in partnership with our customers and leading experts and research institutes. We shape the industry trends and keep our offer at the cutting edge of technology.

### We want to make the industry greener

Our commitment to sustainability is deeply ingrained in all aspects of our business, from developing sustainable products to protecting the natural environment and cultural heritage of the communities we work in.



The mark of  
responsible forestry



The mark of  
responsible forestry

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