

The ride is lighter
despite the heavy loads



**CORE
MATERIALS**

Tailored solutions for
AUTOMOTIVE

www.3Acorematerials.com

Best performance and value for Automotive applications

Best total cost of ownership

All road transport applications strive for reduced structural weight. This not only saves fuel consumption considerably but also allows a higher payload – both drivers that directly influence the operating cost (or revenue) of a vehicle. This is of particular interest for urban vehicles or electrical cars, in which reduced weight will significantly contribute to downsizing the power train and improving range. Composites and especially the sandwich technology offer unique potential for significant weight savings. Besides lightweight, the materials also need to withstand the possibly high temperatures and pressures of production cycles, be cost-efficient and globally available. While some applications require specific insulation properties, others require thermoformability and recyclability. **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:

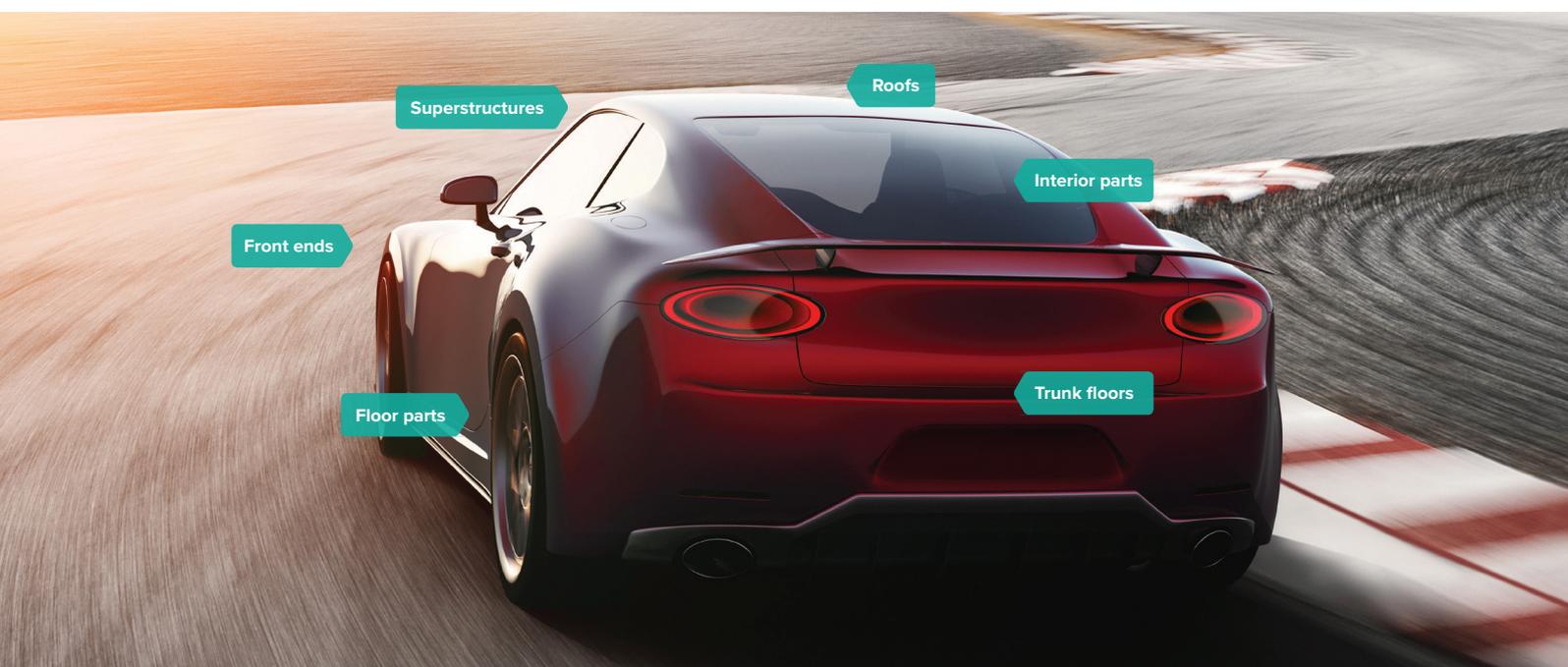
- / Great weight saving potential (fuel economy, higher payload)
- / Excellent mechanical characteristics
- / Very high insulation properties

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 a fruitful 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 an optimized 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
- / Recreational vehicles
- / Trucks
- / Buses
- / Specialized vehicles



Our Automotive portfolio

Especially suitable materials

Numerous applications lend themselves for sandwich applications:

- / Structural and semi-structural parts (e.g. trunk floor, bonnets, roofs, doors, truck superstructures, bus floors, etc.)
- / Interior parts (e.g. claddings, hat shelves, furniture, etc.)

Based on the vast expertise and know-how in the design of sandwich constructions, we offer cutting-edge in-house design support to assist customers in developing new solutions and leveraging the respective weight savings. For automotive and road applications we particularly recommend the following materials:

AIREX® T92 High temperature resistance
Thermoformable
Good insulation
Recyclable

AIREX® T10 Excellent surface quality
Lightweight
High fatigue strength
Directional properties
Easy shaping
Recyclable

AIREX® T90 Fire resistance
Lightweight
High fatigue strength
Recyclable

BALTEK® SB Very strong and rigid balsa core
Lightweight
Renewable resource

AIREX® C70 Especially lightweight with high mechanical properties

Our core materials can be delivered with various finishing options 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.



Europe | Middle East | India | Africa

Airex AG

5643 Sins, Switzerland

T +41 41 789 66 00

corematerials@3AComposites.com

North America | South America

Baltek Inc.

High Point, NC 27261, USA

T +1 336 398 1900

corematerials.americas@3AComposites.com

Asia | Australia | New Zealand

3A Composites (China) Ltd.

201201 Shanghai, China

T +86 21 585 86 006

corematerials.asia@3AComposites.com

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