

The sky is not the limit



**CORE  
MATERIALS**

Tailored solutions for  
**AEROSPACE**

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

# Best performance and value for Aerospace applications

## Best total cost of ownership

Aerospace applications are prime examples of complex lightweight systems. Composite sandwich technology offers unique potential for significant weight savings in aerospace, which translates into maximized flight performance, minimized fuel costs / reduced environmental impact or extended payload. Besides, myriad additional requirements such as specific processing constraints, long-term stability, extreme temperature resistance or even radar transparency, are equally important along with the most stringent quality and safety requirements. With the **Hybrid Core Concept**<sup>®</sup>, **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**<sup>®</sup> and **BALTEK**<sup>®</sup> products offer you 6 top advantages:

1. Great weight saving potential (fuel economy, environmental impact, higher payload)
2. Fire resistance FST (fulfillment of the highest fire standards – FAR 25'853)
3. Excellent mechanical characteristics
4. Radar transparency
5. Very high insulation properties
6. Easy processing

For us, the deep understanding of our customers' fundamental requirements and their applications is the basis for fruitful customer service. Thus, 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** offers the perfect sandwich solution to virtually any aerospace application:

- / Structural and secondary-structural aircraft parts (fuselage and wings, flaps, covers, helicopter rotor blades, etc.)
- / Interior parts (claddings, floors, galleys, meal trolleys, etc.)
- / Transport containers, pallets, etc.
- / Radomes
- / Ductwork



# Our Aerospace portfolio

## Especially suitable materials

Based on the vast expertise and know-how in the design of sandwich constructions **3A Composites Core Materials** offers its state-of-the-art in-house design support to assist customers in developing new solutions and leveraging the respective weight savings. For aerospace applications we particularly recommend the following materials:

<b>AIREX® R82</b>	<ul style="list-style-type: none"> <li>Excellent properties/density ratio</li> <li>Outstanding fire resistance</li> <li>OSU heat release</li> <li>High temperature performance</li> <li>Radar transparent</li> </ul>
<b>AIREX® TegraCore™</b>	<ul style="list-style-type: none"> <li>Lowest density 50 kg/m<sup>3</sup> (3 lb/ft<sup>3</sup>)</li> <li>Outstanding fire-resistance</li> <li>OSU heat release</li> <li>Processable to 200 °C / 400 °F</li> <li>Easy forming and manufacturing</li> </ul>
<b>AIREX® T90</b>	<ul style="list-style-type: none"> <li>Fire resistance</li> <li>Lightweight</li> <li>High fatigue strength</li> <li>Processable to 160 °C / 300 °F</li> </ul>
<b>BALTEK® SBC</b>	<ul style="list-style-type: none"> <li>Very strong and rigid balsa core</li> <li>Lightweight</li> <li>From 3A Composites plantations</li> <li>Renewable resource</li> </ul>

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 75 years of experience.

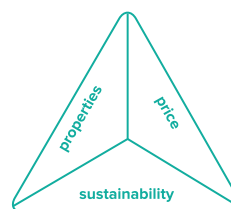
Since the very beginning our focus has been developing strong and solid, yet lightweight core materials, which allow to manufacture more durable, sustainable and energy-efficient end products for our customers. Our products have also the purpose to create a stronger, lighter and greener future.

### 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.



Hybrid Core Concept®



The mark of responsible forestry



The mark of responsible forestry

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