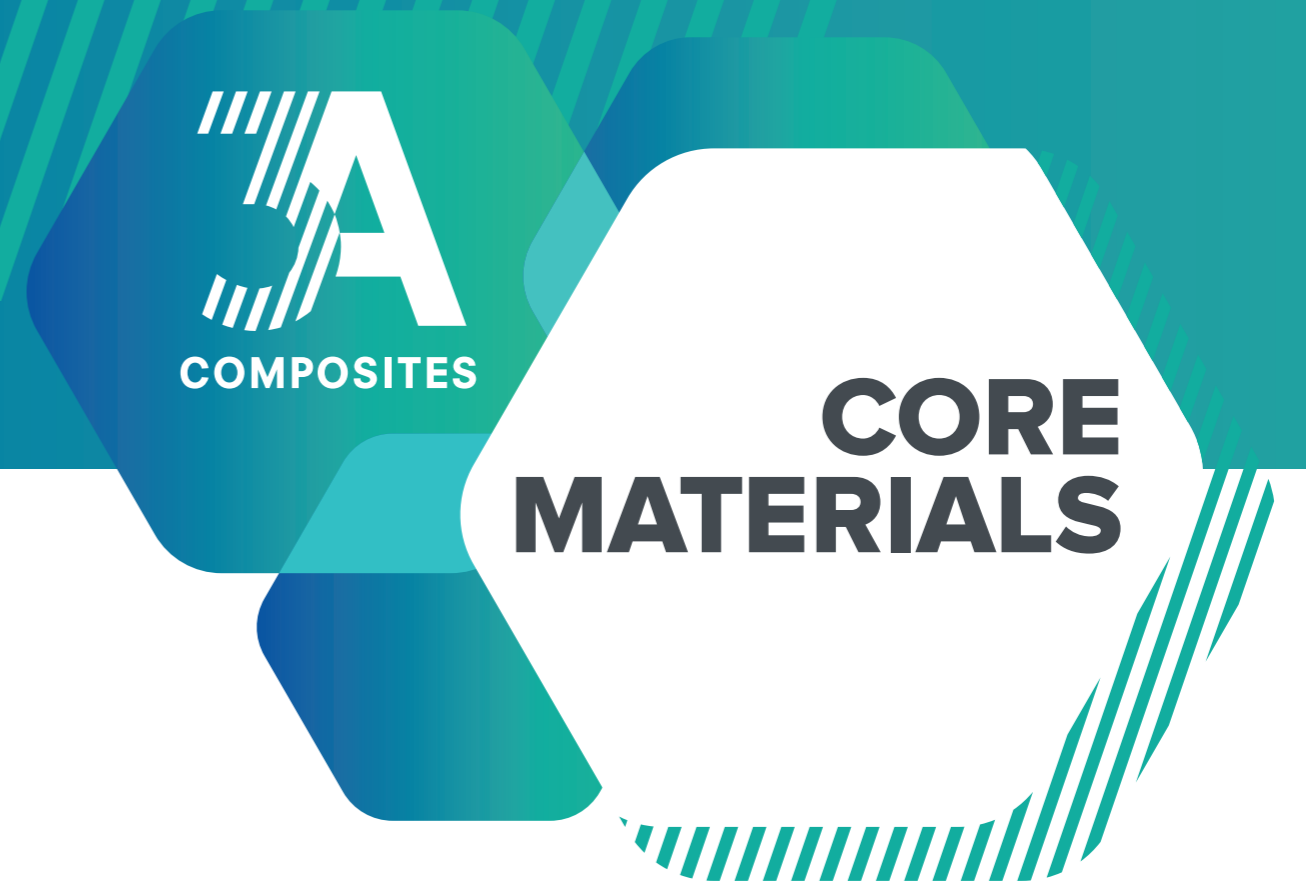
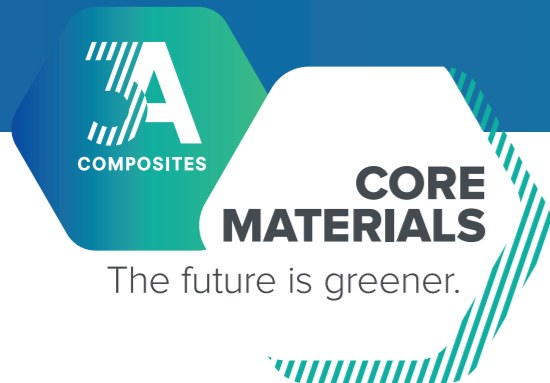


Europe | Middle East | India | Africa
Airex AG
5643 Sins, Switzerland
T +41 41 789 66 00 | F +41 41 789 66 60
corematerials@3AComposites.com

North America | South America
Baltek Inc.
High Point, NC 27261, USA
T +1 336 398 1900 | F +1 336 398 1901
corematerials.americas@3AComposites.com

Asia | Australia | New Zealand
3A Composites (China) Ltd.
201201 Shanghai, China
T +86 21 585 86 006 | F +86 21 338 27 298
corematerials.asia@3AComposites.com



www.3Acorematerials.com



PRODUCT LIST
Structural core materials



CHARACTERISTICS

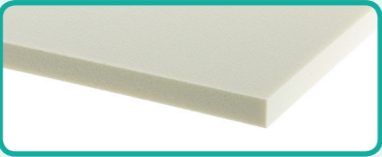
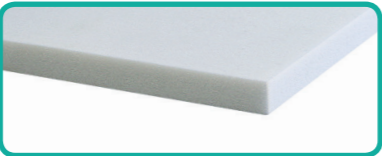
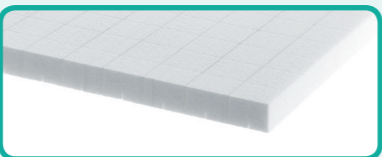
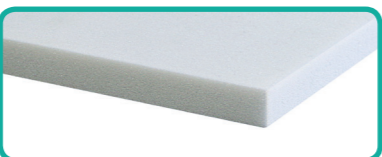

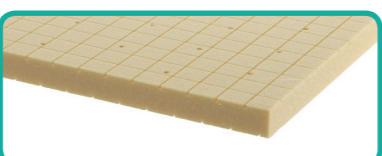
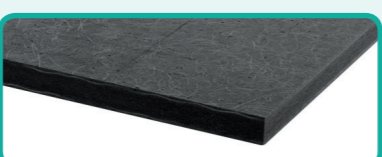


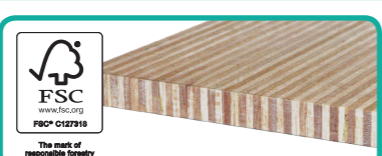
APPLICATIONS

PROCESSING

All of our products are lightweight and offer fatigue resistance, low water absorption, sound and thermal insulation and positive flotation.

Specific superior features are listed below:

Contact moulding (hand spray) Vacuum infusion Adhesive bonding Pre-preg Resin injection (RTM, VARTM) (SMC, GMT) Thermoforming

		Marine	Wind energy	Rail	Road	Aerospace	Industrial			Contact moulding (hand spray)	Vacuum infusion	Adhesive bonding	Pre-preg	Resin injection (RTM, VARTM)	(SMC, GMT)	Thermoforming	
AIREX® R82 High performance structural foam (60 – 110 kg/m³) (3.7 – 6.9 lb/ft³)		•		••	•	•••	•	<ul style="list-style-type: none"> - fulfills the most stringent fire requirements - very low moisture absorption - excellent dielectric properties (radar transparent) - extremely wide operating temperature range - remains ductile at cryogenic temperatures 	Sandwich structures subjected to extreme environments (hot or cold), exposed to fire loads in service or that require very high process temperatures or low dielectric properties (radar transparent)	✓	(✓)	✓	✓	(✓)			✓
AIREX® T10 Industrialised structural foam core (60 – 110 kg/m³) (3.7 – 6.9 lb/ft³)		•••	•••	•	•••		•••	<ul style="list-style-type: none"> - exceptional strength and stiffness - outstanding homogeneity of density and cell structure - compatible with all resins and processing methods - high chemical and thermal resistance - recycled and recyclable - excellent total cost proposition 	Sandwich structures subjected to static or dynamic loads which also require high service or processing temperatures	✓	✓	✓	✓	✓	✓	✓	✓
AIREX® T90 Fire resistant structural foam (60 – 210 kg/m³) (3.8 – 13.1 lb/ft³)		•		•••	••	•	••	<ul style="list-style-type: none"> - fulfills high FST (flame, smoke, toxicity) requirements - compatible with all resins and processing methods - thermally stable with no outgassing - very high chemical resistance - recyclable 	Sandwich structures subjected to static or dynamic loads, high service or processing temperatures or exposed to fire loads	✓	✓	✓	✓	(✓)	✓		✓
AIREX® T92 Easy processing structural foam (60 – 320 kg/m³) (3.8 – 20.0 lb/ft³)		••	•••	•	••		••	<ul style="list-style-type: none"> - outstanding fatigue properties - compatible with all resins and processing methods - thermally stable with no outgassing - very high chemical resistance - recycled and recyclable - best-in-class resin uptake; especially with SealX option 	Sandwich structures subjected to static or dynamic loads which also require high service or processing temperatures	✓	✓	✓	✓	(✓)	✓		✓
AIREX® C70 Universal structural foam (40 – 250 kg/m³) (2.5 – 15.6 lb/ft³)		•••	•••	•	••	•	••	<ul style="list-style-type: none"> - very high strength and stiffness to weight ratio - good impact strength - good chemical resistance - low resin absorption 	Sandwich structures subjected to static or dynamic loads with a premium on weight reduction	✓	✓	✓	(✓)	✓			✓
AIREX® C71 Elevated temp. structural foam (60 – 80 kg/m³) (3.7 – 5 lb/ft³)		••	•••	•	•	••	•	<ul style="list-style-type: none"> - very high strength and stiffness to weight ratio - high temperature resistance - good impact strength - low flammability - low resin absorption 	Sandwich structures subjected to static or dynamic loads also exposed to elevated temperatures during manufacturing or in service	✓	✓	✓	✓	✓			✓
AIREX® PXc/PXw Fiber-reinforced structural foam (245 – 420 kg/m³) (15 – 26 lb/ft³)		•••	•	•	••		••	<ul style="list-style-type: none"> - very high compression and shear properties (PXc) - good flexural (bending) strength and stiffness (PXw) - high temperature resistance - very high chemical resistance - high fastener pull-out strength 	PXc for sandwich structures subjected to high static loads including point loads from hardware attachment. PXw ideally suited as a stand-alone panel replacing wood or plywood	✓	✓	✓	(✓)	✓	(✓)		✓
BALTEK® SB Select grade structural balsa (94 – 247 kg/m³) (5.9 – 15.4 lb/ft³)		•••	•••	•••	•••	•	••	<ul style="list-style-type: none"> - outstanding strength and stiffness to weight ratio - fulfills most FST (flame, smoke, toxicity) requirements - extremely wide operating temperature range - excellent fatigue behavior - ecological product 	Sandwich structures subjected to high static or dynamic loads, exposed to fire loads in service or that require high operating or process temperatures	✓	✓	✓	✓	✓	✓		✓
BALTEK® SBC Certified select grade structural balsa (96 – 153 kg/m³) (6 – 9.5 lb/ft³)		•••	•••	•••	•••	•	••	<ul style="list-style-type: none"> - plantation-grown, FSC®-certified and fully traceable - outstanding strength and stiffness to weight ratio - fulfills most FST (flame, smoke, toxicity) requirements - extremely wide operating temperature range - excellent fatigue behavior 	Sandwich structures subjected to high static or dynamic loads, exposed to fire loads in service or that require high operating or process temperatures	✓	✓	✓	✓	✓	✓		✓
BALTEK® VBC Tailored structural core material (180 – 240 kg/m³) (11.2 – 15 lb/ft³)		••	•••	•••	••	•	•••	<ul style="list-style-type: none"> - tailored structural core material - homogenous density distribution - high damage tolerance - excellent fatigue behavior - extremely wide operating temperature range - easy processing to minimal thickness - FSC® 100% certified 	Sandwich structures with tailored, oriented properties that are subjected to high static or dynamic loads, exposed to fire or applications with high operating or processing temperatures.	✓	✓	✓	✓	✓	✓		✓

••• = best choice •• = most suitable • = suitable