PRODUCT LIST
Structural core materials
### AIREX® TegraCore™

- High performance structural foam
- (50 kg/m³) (3.3 lb/ft³)
- Fulfill the most stringent fire requirements
- Very low moisture absorption
- Excellent in-compressibility (water transparent)
- Extremely wide operating temperature range
- Remains ductile at cryogenic temperatures

### AIREX® T90

- Premium structural foam core
- (60 – 130 kg/m³) (3.7 – 8.1 lb/ft³)
- 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

### AIREX® T92

- Easy processing structural foam
- (60 – 320 kg/m³) (3.8 – 20.0 lb/ft³)
- Outstanding fatigue properties
- Compatible with all resins and processing methods
- Thermally stable with no outgassing
- Very high chemical resistance
- Recyclable

### AIREX® C70

- Universal structural foam
- (50 – 130 kg/m³) (3.7 – 81 lb/ft³)
- Very high strength and stiffness to weight ratio
- Good impact strength
- Good chemical resistance
- Low resin absorption

### AIREX® PXc/PXw

- Fiber-reinforced structural foam
- (245 – 420 kg/m³) (15 – 26 lb/ft³)
- 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
- Outstanding strength and stiffness to weight ratio
- Fulfills most FST (flame, smoke, toxicity) requirements
- Extremely wide operating temperature range
- Excellent fatigue behavior
- Ecological product

### BALTEK® S8

- Select grade structural Balsa
- (94 – 247 kg/m³) (5.9 – 15.4 lb/ft³)
- Grown on 3A Composites balsa wood plantations
- Physical and static properties of time to kiln (T2K)
- Outstanding strength and stiffness to weight ratio
- Fulfills most FST (flame, smoke, toxicity) requirements
- Extremely wide operating temperature range
- Excellent fatigue behavior

### BALTEK® SBC

- Plantation controlled structural Balsa
- (96 – 153 kg/m³) (6 – 9.5 lb/ft³)
- Grown on 3A Composites balsa wood plantations
- Homogeneous density distribution
- High damage tolerance
- Excellent fatigue behavior
- Extremely wide operating temperature range
- Easy processing to minimal thickness

### BALTEK® VBC

- Engineered structural Balsa
- (980 – 240 kg/m³) (11.2 – 15 lb/ft³)
- Grown on 3A Composites balsa wood plantations
- Tailored structural core material
- High damage tolerance
- Excellent fatigue behavior
- Extremely wide operating temperature range
- Easy processing to minimal thickness

### APPLICATIONS

- Marine
- Wind energy
- Rail
- Road
- Aerospace
- Industrial
- Marine: Suitable for marine applications.
- Wind energy: Suitable for applications requiring high stiffness.
- Rail: Suitable for applications requiring high strength-to-weight ratio.
- Road: Suitable for applications requiring high fatigue properties.
- Aerospace: Suitable for applications requiring high performance.
- Industrial: Suitable for applications requiring high chemical resistance.

### PROCESSING

- Contact moulding
- Vacuum infusion
- Pre-preg
- Resin injection
- Thermoplastic
- Thermoforming
- RTM, VARTM
- SMC, GMT

### CHARACTERISTICS

- 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:

- 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 (water transparent).
- Thermal insulation and sandwich structures subjected to demanding fire loads, in complex shapes and environmental demanding conditions.
- Sandwich structures subjected to static or dynamic loads which also require high service or processing temperatures.
- Sandwich structures subjected to static or dynamic loads, high service or processing temperatures or exposed to fire loads.
- Sandwich structures subjected to static or dynamic loads with a premium on weight reduction.
- Sandwich structures subjected to high static loads including point loads from hardware attachment.
- Sandwich structures subjected to high static or dynamic loads, high service or processing temperatures or low dielectric properties.
- 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.

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