

Aerialite X

get the edge on EXTREME



A strategic partnership between BGF and specialty fiber manufacturer, Innegra Technologies has produced a brand new Aerialite® innovation called Aerialite X. Aerialite X is designed with a range of fiber combinations from 100% Innegra fiber to Innegra hybrid designs. The latest advancement comprises Innegra fiber co-mingled as part of the fiber matrix in both glass and carbon. Fibers can be custom designed to enhance your product requirements. The result is an extremely durable fabric that withstands the most intense conditions.

Aramid + Innegra S	Carbon + Innegra S	Glass + Innegra S
<p>positively impacts:</p> <ul style="list-style-type: none"> Weight Cost Damage Tolerance Impact Resistance Moisture Resistance Dielectric Properties 	<p>positively impacts:</p> <ul style="list-style-type: none"> Weight Cost Damage Tolerance Impact Resistance Vibration Dampening Dielectric Properties 	<p>positively impacts:</p> <ul style="list-style-type: none"> Weight Damage Tolerance Impact Resistance Vibration Dampening Dielectric Properties

density	Innegra S	Aramid	Carbon	E Glass
_____	0.84g/cc	1.44g/cc	1.78g/cc	2.54g/cc



BENEFITS OF WEIGHT REDUCTION

- Lighter boats can go faster
- Powerboats benefit from being able to use smaller engines at a lower cost
- Fuel savings for powerboats (fuel usage reports www.boattest.com)
- Less muscle fatigue in non-motor powered boats
- Less weight high up on a boat, reducing the roll and yaw, and improving the stability and ride

BENEFITS OF INNEGRA S FIBER

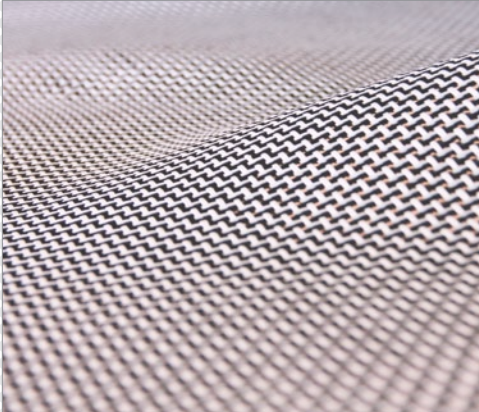
- Reduces weight
- Increases damage tolerance
- Increases impact resistance
- Reduces maintenance
- Incredible strength-to-weight ratio
- Hydrophobic: Does not absorb moisture
- Vibration dampening: Boat absorbs the energy, making for a smoother ride
- Hydrolytically stable: Resists chemical breakdown below the waterline

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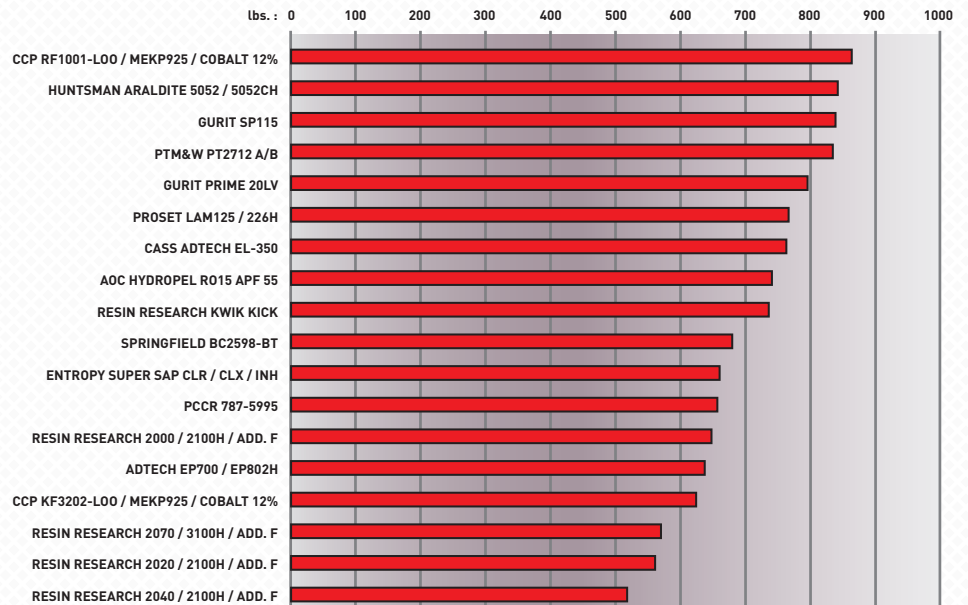
Available in a range of weights and fiber combinations, Aerialite X gives products the edge on EXTREME with added flex and durability.



Used for high impact applications in SUP boards, surfboards, auto racing and protective sports equipment, Aerialite X delivers impact resistance, damage tolerance and vibration reduction. It's perfect for marine or land use with intrinsic hydrophobic properties and remarkable strength-to-weight ratio. Aerialite X is truly the next level of lightweight, high-performance composite fabrics.

Style	Weave Pattern	OSY	Fiber Type	Count Ends X Picks (in)
Marine (Surf, SUP)				
IN20A	Plain	2.00	IS-625 Innegra	12x12
IN36A	Plain	3.50	IS-940 Innegra	14.5x14.5
HIN40	Plain	4.00	75's 1/0 RCY x IS-940 Innegra	24x18
HIN31	Plain	4.20	IS-940 Innegra x 75 1/0 RCY	18x24
HIN33	Plain	3.90	IS-625 Innegra x 75 1/0 RCY	24x24
Reinforcements (Paddles, Kayaks, Canoes, Sporting Goods)				
HIN58	2x2 Twill	6.20	3K/IS-1880 Innegra Alt.	12x12
CMI01	Plain	7.5	3K Carbon/Innegra 2425 Blend x 3K Carbon/Innegra 2425 Blend	12x12
CMI02	Plain	8.6	3K Carbon/Innegra 2425 Blend x 3K Carbon/Innegra 3050 Blend	12x12
CMI03	Plain	8.1	3K Carbon/Innegra 2425 Blend x 3K Carbon/Innegra 2740 Blend	12x12
CMT02	2 x 2 Twill	8.6	3K Carbon/Innegra 2425 Blend x 3K Carbon/Innegra 3050 Blend	12x12
CMT04	2 x 2 Twill	9.6	3K Carbon/Innegra 2425 Blend x 3K Carbon/Innegra 3680 Blend	12x12

Epoxy and Vinyl Ester Resin Adhesion



■ Adhesion Test Values - ASTM D3518 (Lbf at 5% Elong)