

Aerialite X

get the edge on EXTREME



"Aerialite X is made with what I call a "Super Fiber," because the Innegra hybrid comingled fibers deliver all of the critical attributes of lightweight, toughness and strength woven into a superior high-performance fabric for my custom competition kayaks."

Ed Skrzypkowski
Murky Water Kayaks



"When I find myself running class 5 whitewater in a 19lb composite kayak, safety depends on the boat holding together on impact. Innegra is a material that defies what was considered possible and feasible with a toughness that is a game changer."

Eric Jackson, Olympian, World Champion,
President of Jackson Kayak

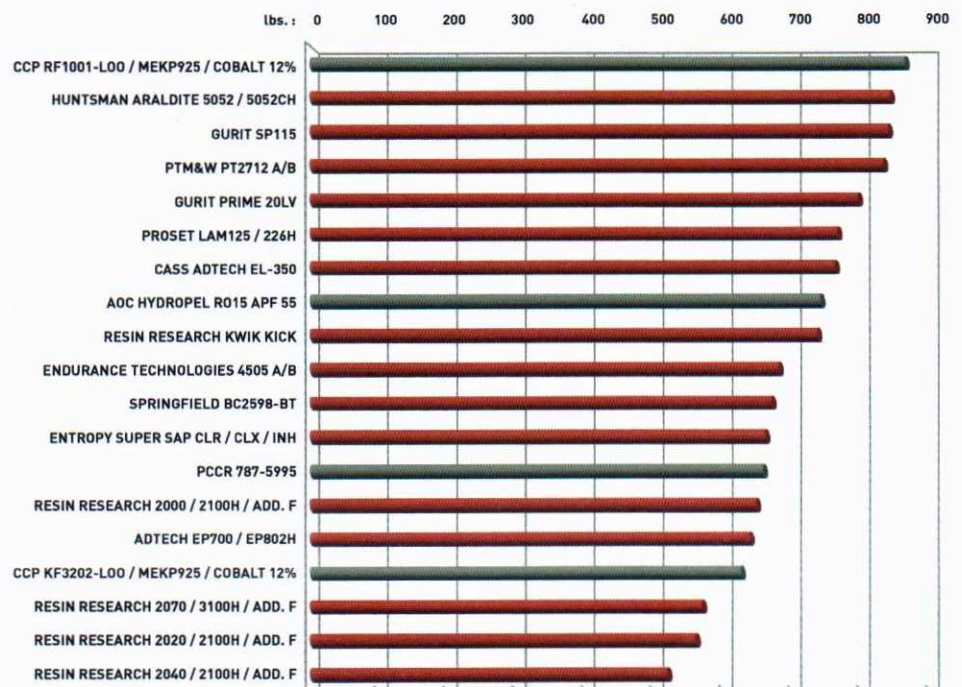


"Aerialite X with Innegra fiber brings the best of all worlds into one fiber matrix - a material that bonds well with epoxy resin, resists delamination upon impact, has high abrasion resistance and does not absorb water. My board made with Aerialite X conquered the rock infested rapids of South Africa at the Dusi Marathon with barely a scratch. I am truly impressed with this amazing material and will be making all of my high end river and surf shapes with Aerialite X in the future."

Corran Addison
Corran SUP

Style	Width	Weave Pattern	Weight (Oz/5sq Yd)	Fiber Description	Construction
IN20A	30"	Plain	2.00	625 Denier Innegra S	12 x 12
IN36A	50"	Plain	3.60	940 Denier Innegra S	14.5 x 14.5
IN36B	50"	Plain	3.60	940 Denier Black Innegra S	14.5 x 14.5
IN71B	50"	Twill	7.10	1880 Denier Black Innegra S	14 x 14
HIN40	30"	Plain	4.00	600 Denier RCY Glass x 940 Denier Innegra S	24 x 18
HIN58	50"	Twill	5.90	1880 Denier Innegra S & 3K Carbon Alternating	12 x 12
HIN60	50"	Twill	6.30	3K Carbon x 1880 Denier Black Innegra S	13 x 13
HIN61	50"	Twill	6.18	1880 Denier Black Innegra S & 3K Carbon Alternating	12 x 13.5
CMI01	40"	Plain	7.50	3K Carbon/Innegra 2450 Denier Blend	12 x 12
CMT02	40"	Twill	8.60	3K Carbon/Innegra 2450 Denier Blend x 3K Carbon/Innegra 3050 Denier Blend	12 x 12
CMI05	40"	Plain	5.00	Innegra/Glass 1250 Denier Blend	15 x 15
CMI80	50"	Plain	8.10	Innegra/Glass 2150 Denier Blend	15 x 13

Epoxy and Vinyl Ester Resin Adhesion



NOTE: Vinyl Ester resins labeled with gray bar. ■ Adhesion Test Values - ASTM D3518 (LBF at 5% Elong)

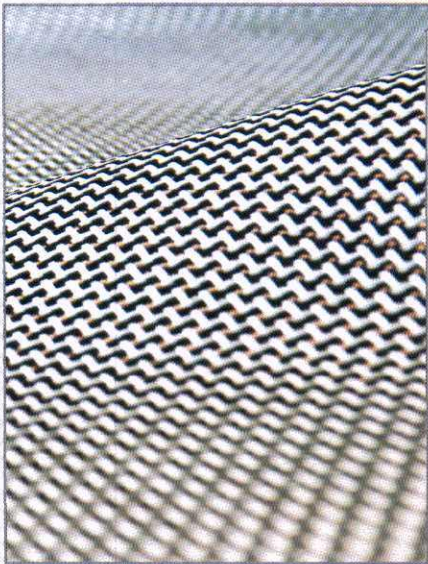
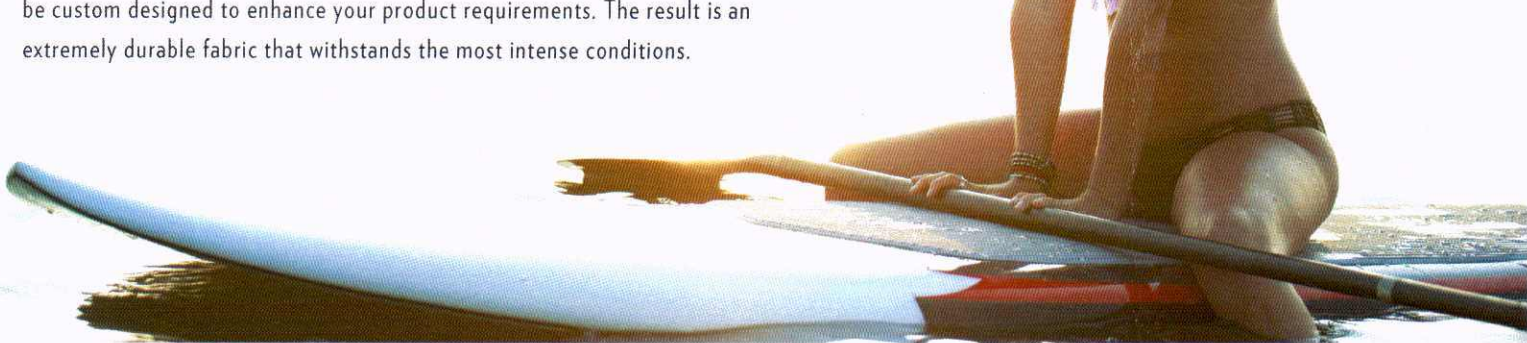
For more information or to find your local distributor, call 800-476-4845 or email info@bgf.com.

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INNEGRA

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.



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 - Innegra is approx. 2/3 the weight of glass & 1/3 the weight of carbon*
- 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

Material	Density g/cm ³	Tensile Strength MPa	Modulus GPa	Elongation at Break %	UV Resistance	Solvent Resistance	Moisture Absorption %	Max Processing Temp °C	Dielectric Constant (Dk)
Aramid	1.44	2400 - 3600	60 - 120	2.2 - 4.4	Poor	Fair	3.2 - 7.0	450	3.4
Carbon (PAN)	1.78	5313	292	1.8	Excellent	Very Good	0	3500	conductive
E-Glass	2.54	2600	72	4.0	Excellent	Very Good	0.1	730	6.2
S-Glass	2.48	4800	85	5.5	Excellent	Very Good	0.1	850	5.2
Innegra	0.84	667	15	9.5	Very Good	Excellent	< 0.1	150	2.2

*exact weight differential will vary depending upon the application.

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