



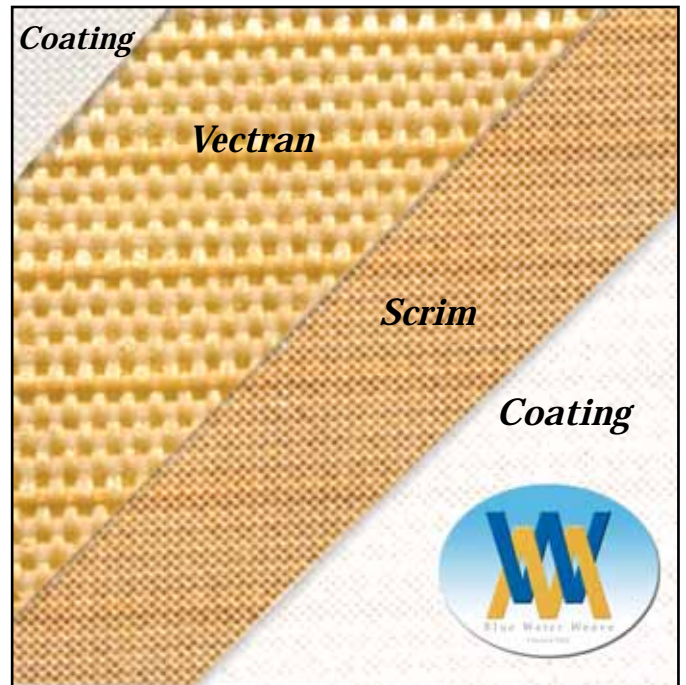
Blue Water Weave

Sail Cloth for Blue Water Super Yachts

Based on woven Vectran core fabrics, Blue Water Weave sailcloth benefits include high-strength, low-stretch and lightweight characteristics. Our system uses a variety of core densities combined with bias cover fabrics to provide off-axis stiffness and abrasion resistance. Blue water yachtsmen get the highest performance yet enjoy the traditional look of a white Dacron appearance.



Mirabella V, the world's tallest single masted yacht, used sail cloth from Warwick's super yacht Vectran wovens.



Top Coating and Long Term Care

Blue Water Weave topcoat system protects from UV, moisture, mildew, and abrasion to extend material life while presenting a traditional white Dacron appearance. Annual top coating protects and restores the sail's new look.

Design Approach – An Engineered Partnership

Warwick's engineers work closely with sail designers to optimize the range of load transition, off-axis stiffness, stability, areas of excess wear and critical load zones. Only Blue Water Weave lets you achieve the lightest, highest performance sails with superior durability and a traditional look.

Woven Vectran core options:
18K x 4K denier per inch
27K x 6K
36K x 8K
45K x 10K

Bias and non bias cover fabrics
1 oz. super light taffeta
3 oz. standard taffeta

www.bluewaterweave.com

Warwick Mills / 301 Turnpike Rd. / P.O. Box 409 / New Ipswich, NH 03071 / 888.477.4675 / 603.878.1565



The Performance of Vectran The Durability of a Woven The Look of Traditional Sails

The Blue Water Weave Sail Cloth System

The Blue Water Weave sailcloth system is based on a woven tough Vectran substrate in a variety of core densities. This core fabric is bonded with a bias cover fabric for off-axis stiffness and abrasion resistance. Unlike typical glue-bonded laminate sails, which are vulnerable to film failure, wovens offer inherent mechanical strength, which are tougher than glue-bonded materials. The Blue Water Weave sailcloth system blends the performance ideals of laminates with the durability of traditional wovens. Blue Water Weave's unique Vectran core properties limit stretch and allow sails to maintain their shape for maximum performance and durability.



Made with Vectran® Fiber

Highest Performance Woven Sail Cloth

Warwick Mills is the world's largest supplier of Vectran wovens. This high-performance fiber is exceptionally strong, lightweight and durable – perfect for demanding high-stress applications like sail cloth. Pound for pound, Vectran is twice the strength of steel, yet five times lighter. Blue Water Weave's rugged Vectran fabric offers outstanding cut and abrasion resistance, low stretch, and excellent flex/fold characteristics unmatched by any other high-performance fibers.

Vectran

Tensile strength is 2X Stronger than Steel

5X Lighter than Steel

Lightweight - High Modulus

Excellent Resiliency to Folding / Bending

Does Not Break Down in Flex Situations

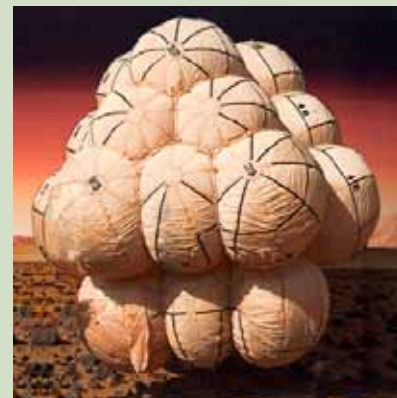
Low Stretch Maintains Airfoil Shape

High Abrasion Resistance

Minimal Moisture Absorption

You Don't Get Second Chances on Missions to Mars

That's why NASA chose Warwick to develop the critical crash bag fabric for their three successful missions to Mars. These spacecraft endured the harsh conditions from the extreme cold of deep space to the flaming entry into Mars's atmosphere, demanding the toughest material. Warwick's multi-layer Vectran woven fabric formed a protective crash bag, which allowed the Pathfinder to bounce as high as 50 feet on the planet's jagged surface before landing safely. This space-age technology is now used to engineer high-performance Blue Water Weave super yacht sailcloth.



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