

CHALLENGE AILCLOTH

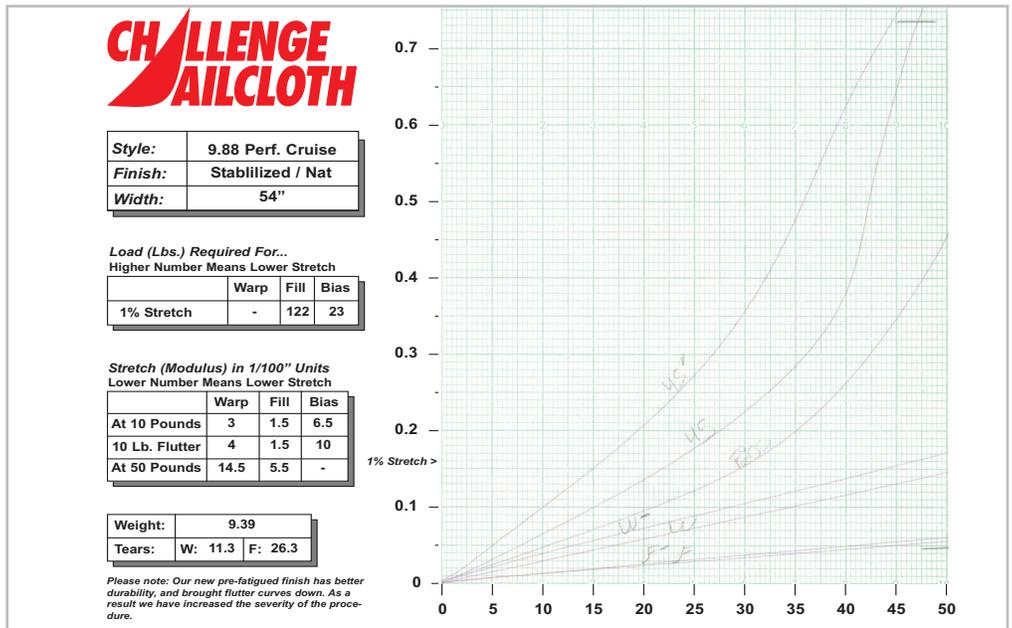
9.18 Performance Cruise



Performance Cruise is the newest line of fabrics designed to fit all cruising needs. They use new higher shrink / higher tenacity warp yarns for higher thread counts and better shape durability, and larger deniers to best resist UV degradation. Constructions are low aspect in light to medium weights, and higher aspect in the heavier styles which experience highest loads. Heavier weight fills are Honeywell 1W70, one of the 2 best sailcloth yarns made. (Other is Fiber 104). We test all yarns using a proprietary MIT Phd. designed sailfiber test. Performance Cruise is woven on the newest looms. Thus weaving quality is second to none

Construction

- Performance Cruise is designed for durable cruising sails. The slightly larger warp yarns provide better warp tear, abrasion, breaking (tensile) strength, and UV resistance than most of the quality weaves
- The new 9.18 has a high count of 300 x 840 denier High Tenacity Honeywell 1W70. It is the perfect cruising compromise between a tender UV warp 250 denier and a coarse 455 or 500 denier warp fabric. The 300 denier warp yarn withstands UV exposure better than a 250. The weave is substantially finer than the alternatives. The higher number of yarn interlacings provide better bias durability, and shape retention over time.



Finish

- Available in Medium Firm spec of 1-9.
- The fabric is heat-set, shrinking up to 20%. The STABILIZED finish is achieved by immersing the fabric in a bath of suspended resin. The resin is absorbed by the fiber. The cloth is then fed into a long oven where the liquids are driven off, leaving resin solids bonded to fibers. The fabric is shrunk under high heat, further tightening the weave, and calendered at high tonnage to further stabilize the bias.
- Finishing in house: Challenge is the largest American sailcloth manufacturer to process its own fabric.

Applications

- 9.18 is for cruising mains and jibs on boats up to 45', on #1 genoas on boats 50-55', and # 2's on boats to 48 feet.

6.68, 7.38, 7.88, 8.88, 9.88, 10.88, and 11.88 have large denier yarns, in proportion to their weight, in both directions. Such massive yarns maximize resistance to UV degradation, tear, breaking and abrasion.

Other Performance Cruise styles have finer weave, and higher yarn counts. The higher number of yarn linkages maximize bias stability and fabric life.