

6.68 Performance Cruise



Performance Cruise is a new line of high performance fabrics engineered to fit all cruising needs. It uses new higher shrink / higher tenacity warp yarns for tighter weave 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 highly loaded styles.

Heavier weight fills are Honeywell 1W70, one of the 2 best sailcloth yarns made. (The other is Dacron 52 by Du-Pont: we test all yarns in house using a proprietary MIT Phd. designed sailfiber test method.).

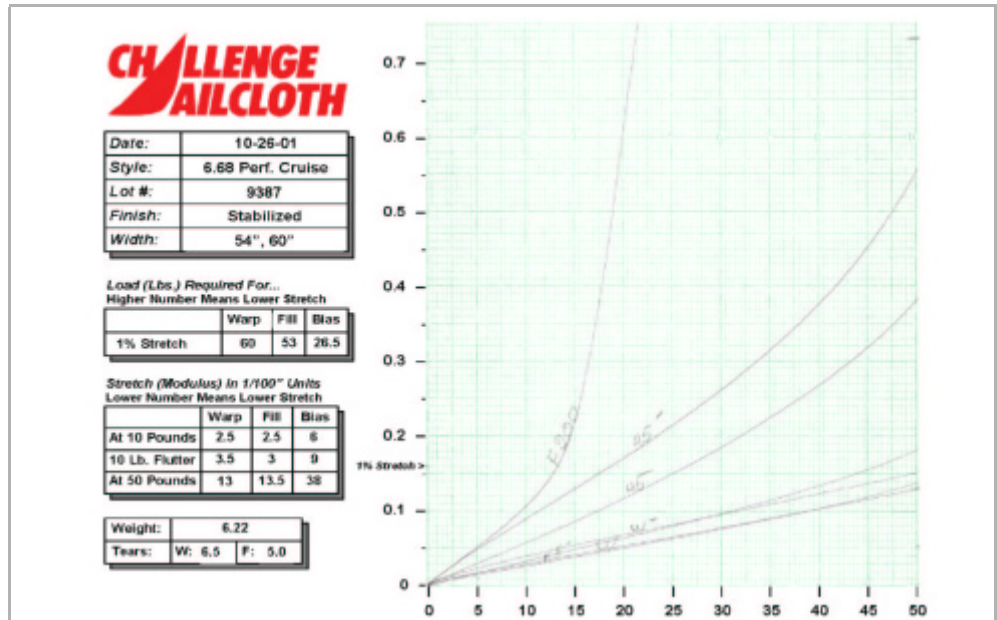
Performance Cruise is woven on the newest looms, not used by most competitors. Thus weaving quality is second to none. 8.68, 9.68, and 11.18 have very large 500 den. warp yarns, ideal for sails where UV resistance is first concern.

Construction

- Performance Cruise is specifically designed for durable cruising sails. The slightly larger warp yarns provides better warp tear strength and better warp breaking (tensile) strength than most of the quality weaves available.

- The warp counts are much higher than fill counts, so the surface fibers are almost exclusively warp yarns, while the fill yarns are largely hidden: Warp yarns almost exclusively exposed to the sun.

- Fiber mass is more effective in prolonging fabric life in the sun than cosmetic UV thin coatings which are often ineffective.



Finish

- Available in Medium Firm spec of 3-9.
- 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

- 6.68 is suitable for # 3 genoas on 21-26' boats, # 2's on 27-31 footers, # 1 on 44-52; low asp. mains on 25-30'.

8.68, 9.68, 11.18 have large denier yarns 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.