COST-EFFECTIVENESS OF SAILCLOTH SELECTION FOR DIFFERENT CLASSES, TYPES AND SPECIES OF SAILING BOATS

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ABSTRACT

Results over of theoretical analysis for the selection of corresponding basic material of sail clothes fabric for a different classes, types and views of sailing boats are given in the article.

Sailing boats needs the proper of yachting equipment, that goes both with the manipulation of boats and rigging (in accordance of views, classes and types of sailing boats). The material for sailing is elected by participants of competitions depending of the area of navigation, the strength of wind, the whole distances and boats’s possibilities, coming from technical criteria and parameters of the boats.

Full analysis of economic efficiency is conducted and price politics of different material’s types for sails in accordance with its chemical composition is analyzed. The most effective type of factory fabric is certain for sewing of sails for racing boats. For a deep scientific analysis and practical realization of the investigated process an accent is done on the exposure of the most popular sailing sailcloth materials used only on the famous world regattas.

These results are very important and needed foremost for the first-class skippers of modern world racing boats, to identify most practical and super persistent to the wind, the sun, salt water materials that use in sewing of racing sails. Necessary analyses and descriptions of scientific article concerning sewing of racing sails also will be useful to the yachtsmen that only begin the way in the world of cruise yachting and sporting yachting races. Importance of faithful direction at the choice of material for sails is done not only for the decision element of victories in races and regattas, but also for an answer on many questions, constrained concerning speed of boat, norm of coverage of sails and, in the end, with maneuverability, boat speed.

KEYWORDS

yachting; sails; racing; sailing boat; yacht; materials; Tyvek; Carbon; Dyneema; Vectran; Spectra; sailing

REFERENCES


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Understanding Cloth Selection.

There are many different factors that are considered in the construction of sailcloth. Challenge sailcloth is faced with a common question from many sailors, "Which fabric is the best?". Challenge Sailcloth, or any cloth manufacturer, does not make one fabric that is better than another. We make many different fabrics for many different applications. Every sailboat is different. Every rig is designed to power the boat in a unique way.

Sailors also use their boats for different purposes. Many cruise, some race, and a few sail around the world. There are varied elements and forces that act upon the sail. Challenge Engineers design dozens of different product lines to meet the very different needs every sailor.