

Please note that we have deleted the Trade mark name of the fabric we use from this document below to protect our commercial interests.

We can assure you that the following information refers to the fabric we use for our sails.

The fabric manufacturer is known worldwide for its technical excellence, compliance with standards, eco policies and practice.

Our Hi-Tech fabric

A® FR fabrics are found in hospitality, healthcare, office environments, transportation and a myriad of other markets that demand the utmost performance in textile as well as flammability standards.

Unlike the topical FR treatments, the inherent flame resistance of A® FR never washes off and passes NFPA 701 small scale. Since A® FR is non-absorbent; stains adhere only to the surface making stain removal much simpler.

A® - Performance

Use and care processes place high demands on domestic textiles. Frequent use of seat covers causes them to crease or wear through. This can occur particularly with upholstery fabrics with flame-resistant treatments, as they can be damaged by topical treatments.

Light-fastness and UV resistance are very important for curtains and upholstery fabrics. Natural fibre fabrics treated with flame-resistant finishes can be damaged very quickly when exposed to UV.

These problems can be alleviated with suitable designs, but limits ideas for the designers.

A® FR fabrics on the other hand have a polyester fibre with flame-resistant modification as the base material. The low level of modification means that the positive properties of polyester are virtually unaffected.

A® FR Properties

Resistant to Stretching and Shrinking

Quick Drying

Wrinkle Resistant

Mildew Resistant

Abrasion Resistant

Easily Washed

Passes NFPA 701 Fire Retardancy

Low Smoke Generation

Superior Hand and Drapability

Resistant to Sun Fading, Yellowing and Stiffening

A[®] FR Washing

A[®] FR is cheaper to wash than flame-resistant treated cotton

A[®] FR has non-absorbent properties. Cotton absorbs a large percentage of water. Therefore, using A[®] FR means:

Less water is added to the washing machine

Less energy is needed to heat the water

Fewer chemicals are required because there is less water for dilution

A[®] FR Stain Removal

Because A[®] FR is inherently flame-resistant; the flame-resistance never washes out of the fabric as it does in flame-resistant treated cotton fabric. From a liability standpoint, A[®] FR is the best product you can use.

Since A[®] is non-absorbent, stains adhere only to the surface, making stain removal much simpler

Flame-resistance is inherent (or built in) in A[®] FR and is therefore unaffected by stain removal chemicals

A[®] FR can be treated with chlorine bleach. Chlorine bleach is prohibited on flame-resistant treated cotton

A[®] FR Rinsing

A[®] FR saves in water, machine time and machine operating costs.

Due to the non-absorbency of A[®] FR the rinsing times and the number of overall rinses is reduced

A 12-minute high speed extract in a Broadbent JB210 produced residual moisture of 52% for flame-resistant treated cotton. At the same time, residual moisture of 9.5% was produced on the A[®] FR.

A membrane press operating on a two-minute cycle at 27 bars of pressure produces residual moisture of 56% for flame-resistant treated cotton and 23% for A[®] FR.

A[®] FR Drying

Drying A® FR is less time-consuming and cheaper than drying cotton.

110 pounds of cotton blankets dried in a tumbler dryer requires 20 minutes, while 110 pounds of A® FR blankets dried in a tumbler dryer requires 10 minutes.

Less material is used for the finished article made of A® FR means a lower per unit cost.

When using cotton curtains allow for 10% shrinkage in treated cotton. When using A® FR it allows for 2% shrinkage.

A® FR Upholstery

General instructions for removing stains: Surface stains can be removed if wiped immediately with a sponge. Dried-on stains are not as easy to remove. Never rub roughly to remove a stain. To avoid a ring, work from the outside with a clean sponge. If the stain is small, dabbing with a clean sponge is sufficient. When working with a damp sponge, be careful that the fabric only gets damp, not wet. Follow manufacturer's recommendations regarding the effects of stain removing agents on upholstery or filling materials. Spot removal is only worth-while with small stains. In the case of large stains or general soiling, the whole cover should be cleaned. Wet vacuum machines should not be used as they can leave traces of shampoo on the fabric, which negatively affects the flame-resistant qualities. After cleaning, the fabric should be allowed to dry completely. No heat should be used.

Pressure Marks: Can be removed with a steam iron. However, care should be taken that it does not touch the fabric. This treatment recovers the pile.

Shading: On velour fabrics, the pile can appear shaded. This is an optical effect and brushing removes it.

Static Electricity: May build up in low humidity or in centrally heated rooms during the winter. If the humidity cannot be increased, spray the upholstery fabric with a salt solution 0.075 oz/l (2 g/l) giving a 20-30% dampness depending on the type of material.

Pilling, Frosting: Can occur if the fabric is subjected to mechanical stress. Use an electric shaver on the fabric or a plastic brush intended for this purpose.

A® FR Fabrics Content

Safety is one of the major issues of our time. Today, virtually every car leaves the production line with safety features such as seat belts and air bags. More and more cyclists now wear a helmet. Children are required to be in car safety seats. Smoke detectors and sprinkler systems have become compulsory.

Fire is one of the most frequent causes of accidents and deaths. In many cases, it is spread rapidly by textiles and can often be traced back to commonplace or everyday incidents such as a cigarette or a defective electrical appliance. According to the National Fire Protection Association, more than 50 homes catch fire every hour in the U.S. Valuable protection can be provided by flame-resistant textiles: the most popular and effective of which are made of A® FR and carry the A® FR trademark.

End Users

A® FR textiles completely meet every demand for comfort in products ranging from children's sleepwear and window coverings to upholstery fabrics. A® FR fibres are found in hospitality, health care, office furniture, transportation, and theatre textiles. They are distinguished by attractive designs, smooth and elegant draping characteristics and a pleasant hand, not to mention other important features such as easy-care and a long service life. Thanks to their hydrophilic surface, A® FR fabrics wick away moisture quickly and are colourfast, abrasion-resistant and crease-proof. As a result, home furnishing fabrics made from A® FR fibres are not only safe but also attractive. Fabrics made from A® FR fibres are easy to clean, hold their shape, do not retain odours and, because they are synthetic, are bacteria-free.

Unlike topical FR treatments, No chemical treatment is required on fabrics made with A® FR. Such chemical treatments can cause skin irritation and topical flame-resistant treatments do not last for the life of the fabric. They can wash or wear off. The inherent flame resistance of A® FR never washes off.

Markets

A® FR fabrics are found in hospitality, healthcare, office environments, transportation and a myriad of other markets that demand the utmost performance in textile as well as flammability standards.

Hospitality: A® FR fibres can be converted into a wide array of textile cloths. From sheers to velvets, every end-use demand can be beautifully met when using A® FR. A® FR fabrics have good ultraviolet stability which means they stand up well to sunlight exposure. When natural fibres become brittle, A® FR fibres retain their tenacity for a considerable time when exposed to light. Even when rubbed hard with a wet, white cloth, A® FR leaves No colour marks on the white cloth. Fabrics made with A® FR also are dimensionally stable. Normally, creases drop out by themselves. The soft, flowing drape makes the fabric elegant and attractive. The fabric has a high abrasion resistance and great tensile strength. Compared to regular polyester, A® FR fibres are distinguished by faster, deeper and more brilliant dyeing. A® FR fabrics have outstanding washing characteristics that offer significant economic benefits for commercial applications: fast cleaning, short drying times, a long service life and very good serviceability. Because the fibre only absorbs small amounts of moisture, it can be washed in less water. Hence, less energy and detergent are needed. Compared to natural fibres, dyeing is several times quicker, which also contributes to lower costs.

Healthcare: In addition to safety, the hygienic advantages of A® FR fabrics provide a major benefit. A® FR fabrics perform equal to and many times far superior than most other textile materials, including cotton. Even the most resistant stains, like those caused by disinfectants such as permanganate, are easy to remove. Using selected dyes, A® FR can even resist chlorine. A® FR safety fabrics can be disinfected much more easily than cotton and can be bleached keeping colour intact; this is impossible with fabrics made of cotton. Pleasantly soft A® FR fabrics present No problems for even the most sensitive skin.