



Why is a green fabric treatment important?

Fabric treatments have revolutionized the textile industry, bringing consumers products with durable water and stain-resistant coatings. Many of these treatments are high in fluorocarbons, which do not occur naturally in our environment. Nanotechnology has enabled the invention of GreenShield®, a fabric finish which provides outstanding stain resistance and oil and water repellency, with 8-10 times lower fluorochemical concentrations relative to competitive products.

There is a huge debate in North America about fluorocarbons, C8 vs. C6, PFOA, PFOS, the list continues. Certain fluorochemicals persist in the environment. If you have heard the terms PFOA and PFOS, these are the chemicals that enter our environment and bioaccumulate. GreenShield products do not contain PFOA or PFOS.

Modern research has found that the shorter the fluorocarbon molecule is, the more quickly it will break down in the environment (this is a good thing). This is where the terms C6 and C8 come in. If one thinks of links of a chain, C6 has 6 carbon chain links and C8 has 8. Although C6 molecules break down more quickly so may be the preferred environmental solution, they have traditionally not performed as well or for as long as the C8 chemicals. Therefore, a higher level of treatment is needed with a C6 formula, and thus a higher fluorocarbon concentration now that C8 compounds have been phased out in North America. GreenShield is a C6 formulation.

GreenShield chemists have utilized the principle of biomimicry along with our Green Nanotechnology to bring a durable, high performance fabric treatment to the market. This treatment results in the lowest possible fluorocarbon level on the market, is energy efficient to produce, and generates minimal waste.