



FLUOROTECHNOLOGY PERFORMANCE BOOSTING FOR TEXTILES

FluoroTechnology is the use of fluorine chemistry to create any fluorinated product. When fluorine and carbon atoms combine, they create a powerful chemical bond. The utilization of this bond gives FluoroTechnology its distinct properties of strength, durability, heat-resistance and stability. These properties are critical to the reliable and safe function for a myriad of products that industry and consumers rely on every day.

A relatively small quantity of FluoroTechnology goes a long way to impart performance features that benefit customers and the environment. Some features made possible include oil and water repellency and enhanced cleanability of oil- and water-based stains as well as creating breathable barriers to rain and wind for apparel.

Water and oil-repellent FluoroTechnology allows fabrics to have a longer useful life as well as makes the textile products more sustainable. They are easier to maintain, repel stains, avoiding the need for harsh cleaners, and maintain their attractiveness longer than non-treated fabrics. The need to manufacture fewer textile replacements results in lower consumption of raw materials, some of which are derived from non-renewable sources. Less water and energy are required to manufacture replacements, and, in the case of cotton, less pesticides and herbicides would need to be used for growing replacement fiber. Much of the energy used in fabric production is derived from burning natural gas, coal and/or oil, all of which are non-renewable resources; and burning them results in air pollution. Performance fabrics using FluoroTechnology result in lower cost and higher customer satisfaction while being a net positive for the environment.

The latest-generation FluoroTechnology has been studied extensively by the US Environmental Protection Agency. It has improved environmental and health profiles and it is considered safe for its intended use.

July 2016