

FLUOROTECHNOLOGY 101

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 use and manipulation 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.

Everyday uses

- Air Conditioning: reduce power consumption for compressing refrigerant
- Smart Phones, Tablets and PCs: improve smudge resistance, insulation and weather-ability
- Healthcare: catheters, insulators in defibrillators, pacemakers and MRI imaging devices
- Emergency Response: fire-fighting safety gear and foams
- Pharmaceutical: provide sterile, corrosion-resistant coatings and linings for manufacturing
- Aerospace and Automotive: chemical-resistant tubes, hoses and fluid seals
- Military: barrier protection against chemical warfare agents

FluoroTechnology for Performance Fabrics

A relatively small quantity of FluoroTechnology in performance fabrics goes a long way to impart performance features that increase customer satisfaction, reduce cost, and benefit our environment. Features include

- oil and water repellency
- cleanability of oil- and water-based stains
- breathable moisture barriers to wind and rain

Net Positive for the Environment

Oil-repellent performance fabrics are more sustainable. Consider these benefits:

- easier to maintain, avoiding need for harsh cleaners
- extends the useful life of fabric, reducing the need to manufacture replacements
 - reduced consumption of raw materials, including non-renewable petroleum

- less water and energy usage (natural gas, coal or oil, all of which are non-renewable resources)
 - better air quality by burning less fossil fuel
 - reduced use of pesticides and herbicides for cotton production
- treated fiber and fabric products are routinely recycled

EPA-Reviewed for Safety

Following extensive study by industry and the US Environmental Protection Agency, the latest-generation, short-chain FluoroTechnology is considered safe for its intended use with improved environmental and health profiles.

All things considered, performance fabrics using FluoroTechnology result in higher customer satisfaction while being a net positive for the environment.

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