

## What is the Product?

Stain Free Khakis



## What is it used for?

To wear as clothing and resist stains.

## What's nano about it?

- Nano-Tex explains that the fibers are coated in a nano-particle chemical prior to cutting the fabric.
- The size of the particles allows for easy absorption into the fabric and can coat each thread without changing the look or feel of the fabric.
- The enhancement of the fibers is truly at the nanometer size scale unlike other competitors and this allows the garments to remain breathable and feel like the fabric would otherwise.

## How does it work?

- After the fabric is coated, tiny whiskers form on the threads to help create a thin layer of air that keeps the fibers straight and doesn't allow wrinkles to form.
- The expected life of the coating will last as long as the fabric lasts.
- Liquids are repelled from the fabric, due to the hydrophobic\* surface that is created by the whiskers and the nano-textured surface.
- Fabrics can be made water repellant and/or wrinkle free through additional resin treatments.
- Mud, mustard, dyes and other tough stains will sit on top of the coating and can be minimized.
- Soaps act as a surfactant\* and allow washing to be performed as usual.



### **Does it have other applications?**

- Anything made of fabric can benefit from this technology, so cloth furniture and carpets are improved using Nano-Tex as well.
- Not only pants can be made, but other clothing as well such as coats and shirts.

### **Price?**

- Pants can be found in the range of \$30.00 - \$50.00 for brand names.

### **Glossary:**

- **Hydrophobic** (adj) - Water fearing or water repelling.
- **Surfactant** (n) - a substance capable of reducing the surface tension of a liquid in which it is dissolved

### **This information was obtained from:**

- Nano-Tex
- Definitions were obtained from Dictionary.com

