

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

