

## **Nano-Tex® Frequently Asked Questions**

### **How is the Nano-Tex technology applied?**

The technology is dispersed in good old H<sub>2</sub>O. The fabric is immersed in water/Nano-Tex mix and then cured under specific heat profiles to give great performance with a very soft hand.

### **Is the Nano-Tex technology permanent?**

Yes. Remember your chemistry class and the dreaded “covalent bond?” That’s Nano-Tex in action! A permanent bond and no effect on the fabric’s hand. The technology was originally created for apparel; it is built to withstand repeated cleanings.

### **With adding the chemical to make it perform so well, will it affect the breathability of the fabric?**

Because we are engineering at the nano level we are able to use very little chemistry. The chemistry that we do use is covalently bonded to the fiber and not just coated on top of the fabric, blocking air from moving through the fabric. This allows for the fabric to maintain its breathability.

### **Can Nano-Tex go on any fabric or fiber?**

We can process 98% of all fabric/fiber types in the market. Some high exotic fabrics or fabrics that have beads or metal adornments are simply not meant to run down a finishing line. These situations are where we could run into a potential problem.

### **Can silks be processed with Nano-Tex?**

Yes. Most silks can be processed very successfully. Some silks that are unwashed could potentially cause problems due to wax or other residue on the fabric. In this case they would not be able to be processed on any finishing line for any product.

### **Can linen be processed with Nano-Tex?**

Yes. Linen can very successfully be processed with Nano-Tex.

### **Can a pleated fabric be processed with Nano-Tex?**

Yes. Although it is important that the Nano-Tex process occur before the pleating process, or you can have issues of the pleating coming undone due to the equipment used.

### **Can a delicate fabric be processed with Nano-Tex?**

Yes. We process sheer drapery fabrics every day!

### **Can fabrics with a laminate backing be treated with Nano-Tex?**

Yes. Some laminates are applied with a very low temperature adhesive, which will in turn release when it is in contact with heat. This could potentially cause an issue when curing the Nano-Tex to the fiber.

### **Can Nano-Tex be applied over other textile finishes?**

Yes. Nano-Tex can be applied over all other finishes with the exception of Crypton.

### **Can you put Nano-Tex on Sunbrella fabric?**

Yes. Sunbrella is a solution-dyed product typically used around pool sides and other outdoor applications. This is a perfect environment for Nano-Tex to help repel oily stains from sunscreen, suntan oil, or perspiration.

### **Can Nano-Tex be applied to materials that are already installed such as on upholstered furniture or a slip cover?**

No. Nano-Tex cannot be applied to something that is already manufactured. In order to run down the finishing line we would need the fabric in rolled good form.

### **Does Nano-Tex change FR Characteristics?**

No. Nano-Tex will not affect the FR characteristics of a fabric. If a fabric needs to meet a certain FR code we can use our Nano-Tex + FR formulation to help achieve the specified fire regulation.

### **Can Nano-Tex help with fading of materials from UV exposure?**

No. Nano-Tex will not enhance the UV characteristics of a fabric; it will also not affect the current UV characteristics.

### **Will Nano-Tex prevent Mold/Mildew?**

Nano-Tex will help repel liquids and prevent absorption of a liquid, which makes it difficult to create mold or mildew. Although, Nano-Tex on its own is not an antimicrobial but can be combined with BioAM, an antimicrobial treatment.

### **Does Nano-Tex have antimicrobial characteristics?**

Nano-Tex on its own is not an antimicrobial, but can be combined with BioAM, an antimicrobial treatment.

### **Does Nano-Tex and BioAM antimicrobial contain silver?**

No. Nano-Tex and BioAM does not contain any heavy metals due to their downstream effects on the environment.

### **Why is Nano-Tex considered an environmentally friendly soil and stain finish?**

The technology is designed to use as little chemical as possible, but continue to be extremely efficient. In addition, the soil and stain resistance will help the products stay cleaner for a longer period of time reducing product replacement, and ultimately waste.

**Are there any allergy concerns or concerns with it being in contact with skin?**

No. After ten years of Nano-Tex being in the apparel market on next to skin applications there have been no negative effects reported.

**Is Nano-Tex safe due to the nano-scale, particle-sized engineering? Does it contain nano-materials or particles that can they be absorbed by the skin or blood/brain barrier?**

Nano-Tex is safe. It does not contain nano-particles or materials. The size at which Nano-Tex is engineered is not small enough to be absorbed by the blood/brain barrier.

**Will Nano-Tex and Durablock protect against hot coffee?**

Yes. What makes Durablock so breathable and comfortable to sit on is its ability to allow moisture vapor to pass through the fabric. So the heat from moisture vapor in the hot coffee will pass through the fabric leaving a moist spot on the fabric. But no concern, the coffee will not leave a stain!

**Does Nano-Tex change the cleaning code of fabric?**

No, Nano-Tex will not change a cleaning code of a fabric. Keep in mind; you should always follow the cleaning code of your fabric because these are created to be fiber dependent.

**Can fabric treated with Nano-Tex be laundered?**

Yes. Nano-Tex is covalently bonded and permanent to the fiber. It was created for the apparel market, and designed to be durable to laundering.

**Can fabric treated with Nano-Tex with DuraBlock™ be laundered?**

Nano-Tex and Durablock is not recommended to be laundered. It is designed for seating applications which would not be laundered, it will most likely be spot cleaned.

### **Will Nano-Tex reduce the need for laundering and maintenance cost?**

Yes. Nano-Tex makes the fabric extremely resistant to staining which will result in less maintenance to keep it looking new!

### **What types of cleaners can be used on products treated with Nano-Tex?**

All cleaners can be used. Nano-Tex is not cleaner specific, unlike other soil and stain resistant treatments.

### **Where is Nano-Tex applied?**

Nano-Tex processing can be done in Michigan, North Carolina, New York, Taiwan, and China.

### **Is there a minimum yardage for an order?**

5 yards is our minimum, but we've been known to do less!

### **How can Nano-Tex be specified?**

Nano-Tex can be specified through the Textile Company or the Furniture Company you are working with. Simply say, "I want to spec Nano-Tex!"

### **What is the cost for Nano-Tex?**

Nano-Tex can be anywhere from one to two dollars per yard.