

UNIQLO
2012—New Proposal for
Functional Innerwear – Silky Dry

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Silky Dry: Ultra comfortable Innerwear for Men

- Silky Dry was developed to offer men more comfortable underwear.
- **Improved perspiration and odor. The fabric absorbs perspiration, dries quickly and has anti-microbial and anti-odor functions.**
- Made with micro fibers jointly developed by Toray and UNIQLO that incorporate extremely fine cationic-dyeable polymers.
- The ultrafine fibers deliver an **amazingly smooth feel and a fit that is Ultra Comfortable.** The fit is so light that it gives wearers the sensation they are not wearing innerwear at all.

Silky Dry

Improvements for Silky Dry in 2012

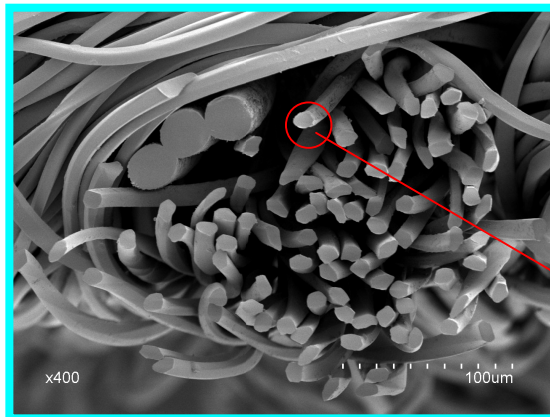
- **Lighter**
- **Thinner**
- **Cooler**
- **Smoother**
- **Improved Dry Performance**

Taking the “wearing nothing” concept to the next level

Silky Dry

Improvement begins with single filaments

Finer: About 20% finer; approximately 1/12 the thickness of human hair

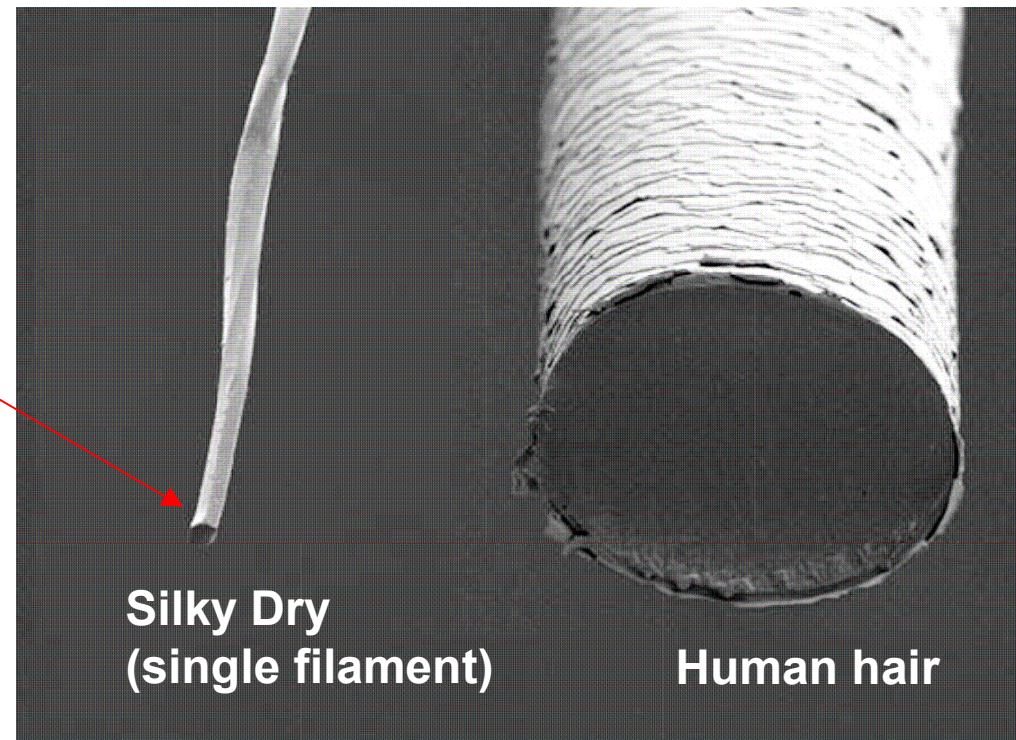


Cross sections of Silky Dry fibers

Diameter of the fiber filament

Silky Dry: 8 μ m

Human hair: 98 μ m

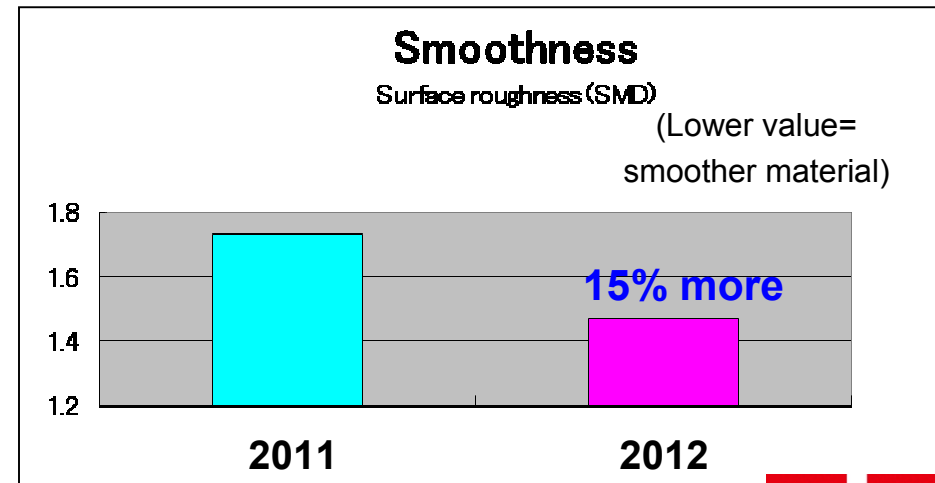
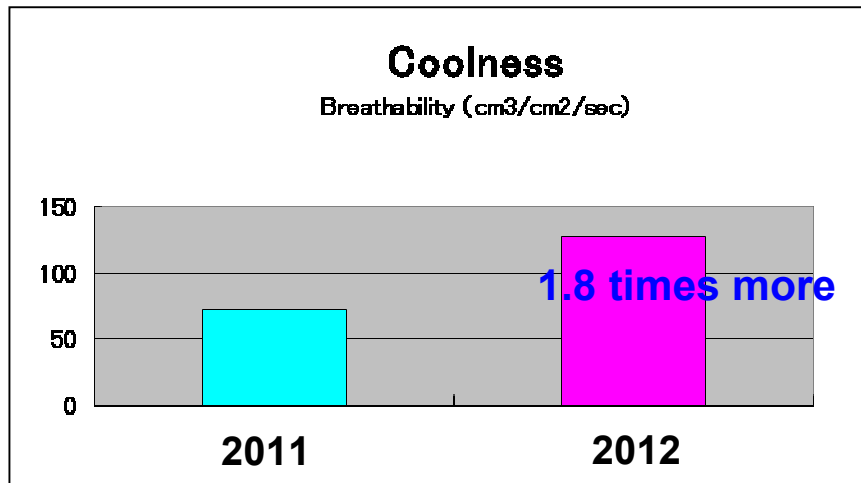
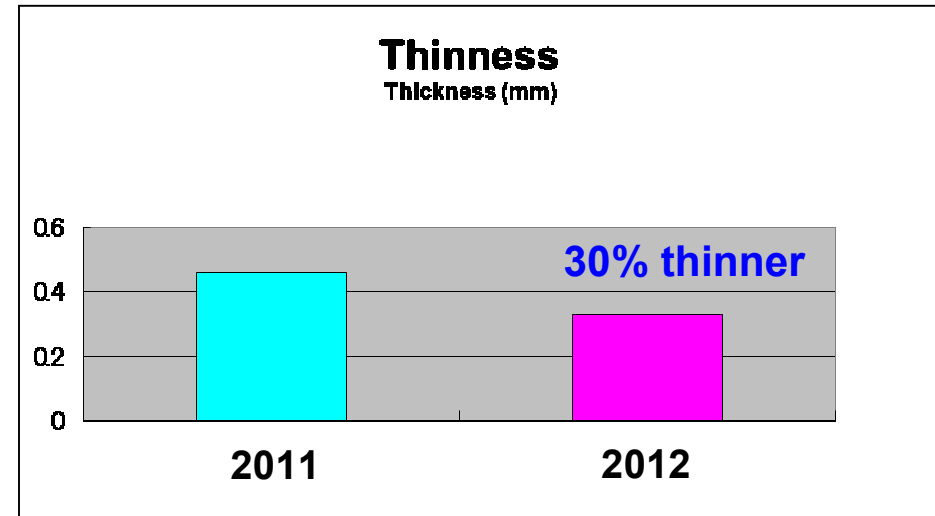
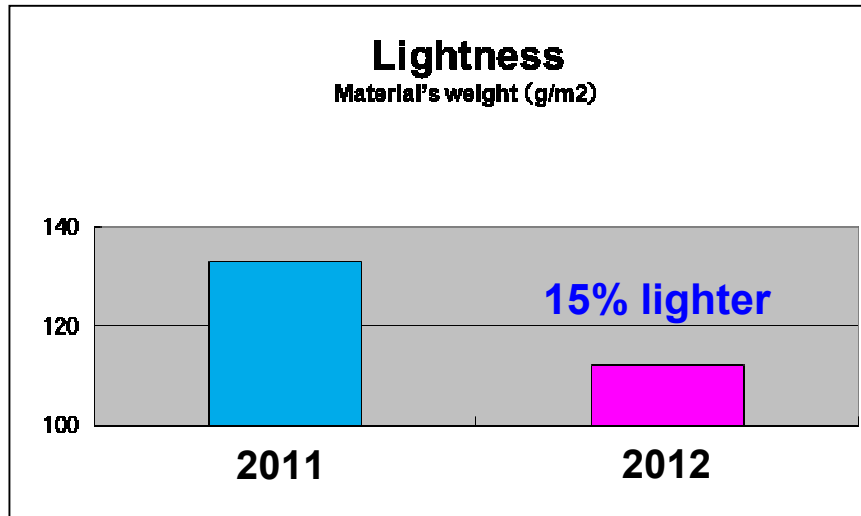


**Silky Dry
(single filament)**

Human hair

Silky Dry

Product improvements based on fabric design



Silky Dry

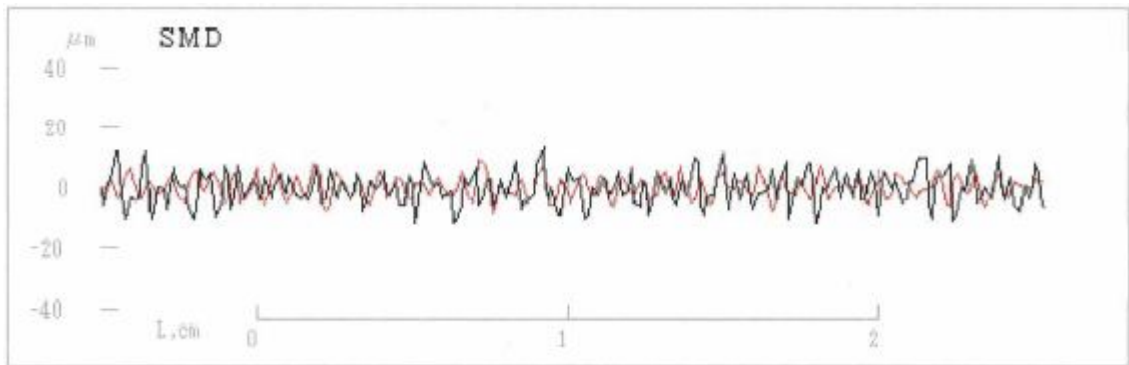
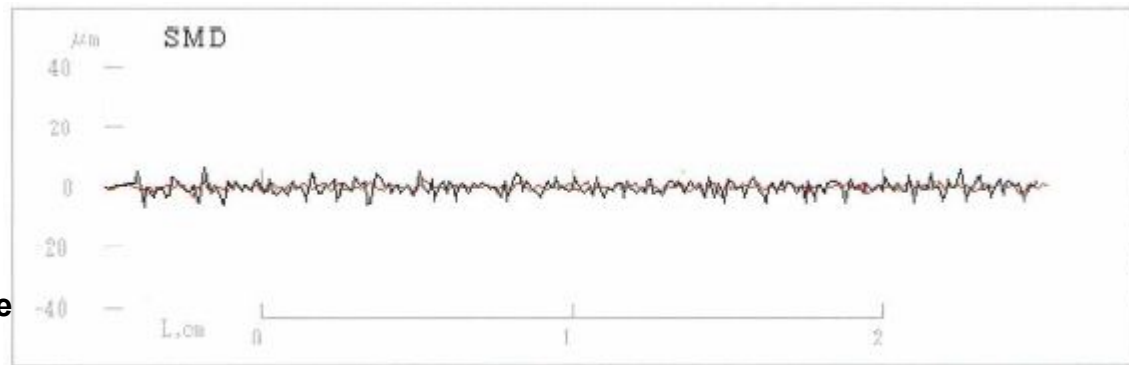
The fabric's surface was made smoother for a silky feel



**Silky Dry
(1.3μm)**

**Measuring instrument
KES surface roughness measurement device**

Mean Deviation of surface roughness



The smoothness of the surface is measured by running a needle along the material and gauging the degree of the needle's vertical movement. The smaller the needle's vertical movement smoother the surface.

**100% cotton
(3.8μm)**

Surface roughness is about 1/3 of cotton

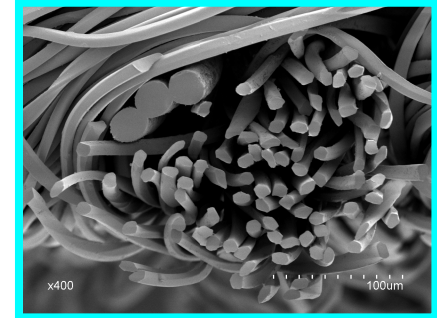
WARP: —

WEFT: —

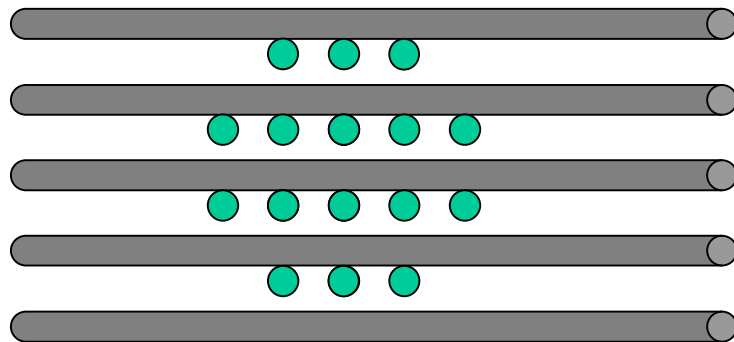


Silky Dry

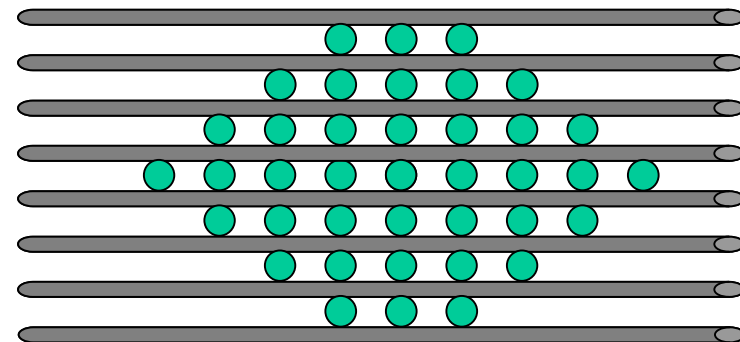
Improved Dry function! The secret is ultra fine fiber



Numerous very small spaces were created between the individual fibers. The increased number of spaces promotes capillary action, which enables quick absorption of moisture. As a result, the material effectively absorbs moisture and quickly dissipates it. The area in contact with the air has been increased to make it easier for moisture to evaporate. The feel is silky and comfortable because the material dries quickly.



2011

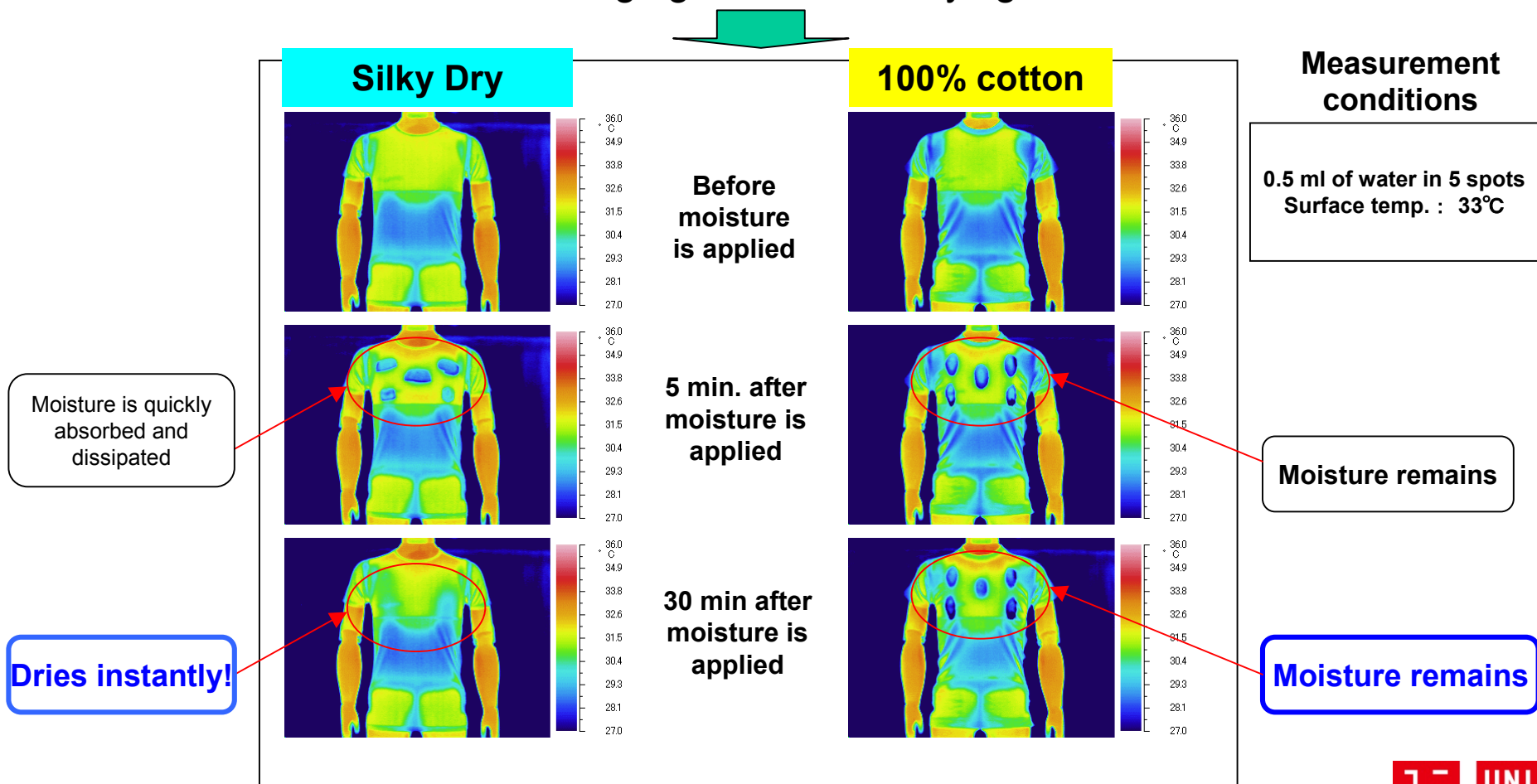


2012

Silky Dry

Silky Dry quickly dries perspiration to reduce clamminess from perspiration

Thermal imaging of moisture drying shows...



Silky Dry

Making the fibers ultra fine results in a fabric with light, cool qualities and giving a “wearing air” feel

+

Anti-microbial and anti-odor functions suppress perspiration odors

↓

Enjoy even greater comfort this summer by wearing one layer underneath your shirt!

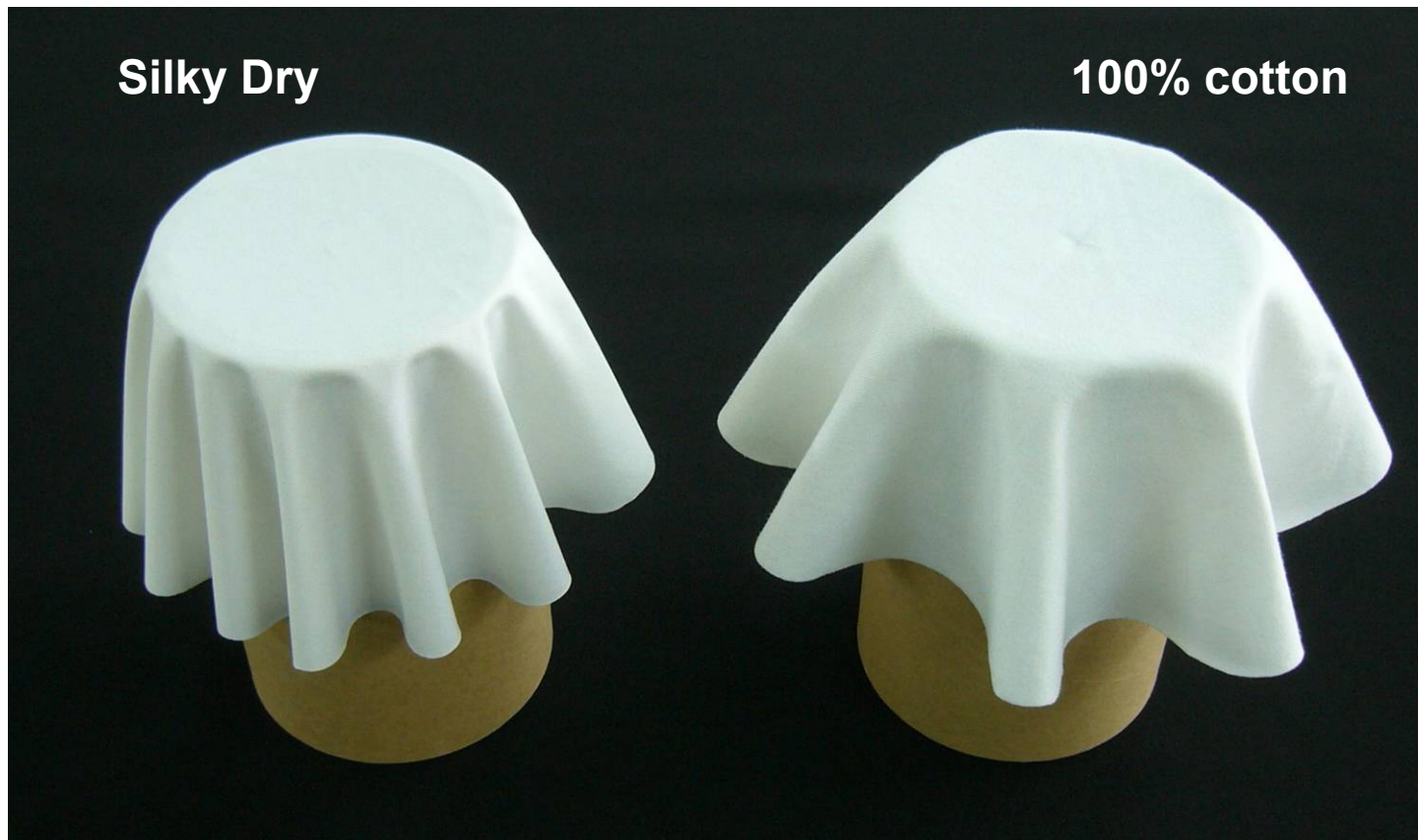
Silky Dry

Additional Information

Silky Dry

The Drape

Silky Dry is very supple, free of tension and rigidity



Silky Dry

Deodorizing quality: Silky Dry quickly absorbs and neutralizes perspiration and other odors

