



Linings...

the inside story

PART 2



GAMA brings you scientific evidence that cellulose acetate linings are more comfortable than polyester linings.

What do linings add to the garment?

- *Help them breathe*
- *Keep their shape*
- *Make them feel better when you slip them on*
- *Help them move with you*
- *Protect outer shell fabric*
- *Prevent see-through*
- *Keep you more comfortable*

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Over the next few weeks GAMA will update you on the results of tests comparing cellulose acetate and polyester in garment linings

Why Cellulose Acetate linings?

Cellulose Acetate is a silk-like material, breathable and is a widely used fibre for top quality lining fabrics.

In recent years some garments have also been lined with polyester fibers... but does it perform like acetate?

Maybe polyester “looks” similar to acetate... but does it “feel” the same?

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Acetate v Polyester final results coming soon...

The tests were conducted at the **SENSORY ANALYSIS CENTER, KANSAS STATE UNIVERSITY, United States** by a team of highly qualified experts.

GAMA will bring you the final results of comfort perception testing on acetate versus polyester lining fabrics.

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The key finding of the Comfort Study

“Jackets tested in the University of Maryland test clearly showed a dominance of acetate’s comfort over polyester’s.”

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How the study was conducted

The Kansas State University study tested the perceived comfort of lined jackets, using both lab instruments and people, in carefully controlled experiments.

The linings were tested in identical blazer jackets

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Lining Fabrics Tested

Fiber Content	Fabric Name and Structure	Yarn Denier Per Filament	Fabric Weight (oz./yd.) (g/m)
100% acetate	(twill weave)	W: 150/40 F : 150/40	3.35 113.6
100% acetate	(twill weave) lightweight	W: 115/50 F : 150/60	2.99 101.5
100% polyester	(twill weave)	W: 70/34 F : 100/30	2.36 79.9
100% acetate	taffeta (rib weave)	W: 150/40 F : 150/40	2.53
100% polyester	taffeta (rib weave)	W: 50/24 F : 75/36	1.48 50.3

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Testing Procedure

Participants monitored in environmentally controlled chambers with varied humidity and temperature levels

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Comfort Evaluation

Each participant was asked to rate from 1-5 how they felt after being in a chamber wearing the jacket.

Descriptors:

- sticky
- non-absorbent
- clammy
- damp
- clingy
- thermal sensation

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Some Key Results...

1. Acetate linings were perceived to be significantly more comfortable than polyester linings.
2. Specifically, the subjects felt less sticky, clammy, and damp when wearing acetate linings.
3. Acetate linings were perceived to transfer moisture much better than polyester

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Some Key Results...

4. Even though the acetate linings fabrics were heavier in construction, they were perceived as “lighter” than the lighter-weight polyester linings.

Does that surprise you? If you want to learn more, stay connected to acetateworld.com

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