

Ceritella™ Performance Validation

200 GSM Interlock Cotton — 100% Cotton

Testing compares identical fabric constructions processed conventionally versus Ceritella™ development protocols. Results include both standardized ASTM testing and brand internal performance evaluations.

Section 1

Standardized Testing (ASTM)

Test	What It Measures	Conventional	Ceritella™	Interpretation
Air Permeability (After 3 Washes) ASTM D737	Retained breathability after laundering	~74.5 cfm	~89.3 cfm	<i>Ceritella™ retains fabric porosity after wash; traditional fabric densifies. Ceritella™ fabric is fuller and loftier.</i>
Coefficient of Friction – Dry ASTM D1894	Fabric–skin friction (dry)	~0.23	~0.14	<i>Ceritella™ shows smoother hand even when dry – bulk softness.</i>
Coefficient of Friction – Wet ASTM D1894	Cling–effect	~0.28	~0.10	<i>Ceritella™ shows strong no-cling behavior.</i>
Stretch @ 10 lbf ASTM D4964	Structural extensibility	~36% (L)	~46% (L)	<i>Ceritella™ is more extensible without structural damage.</i>
Recovery Uniformity (L vs W) ASTM D4964	Balance of elastic recovery	~8.8% diff.	~1.8% diff.	<i>Ceritella™ recovers more evenly – better fit stability.</i>
Bursting Strength ASTM D6797	Multi-directional fabric strength	~101.7 lbf	~113.1 lbf	<i>~11% higher strength confirms reduced fiber damage.</i>

Samples tested: 200 GSM Interlock — 100% Cotton. One lot conventionally processed; one lot under Ceritella™ development protocols.

Wear & Comfort Testing (Internal + AATCC)

Test	What It Measures	Conventional	Ceritella™	Interpretation
Wet Take-Up (Fresh) Brand Internal	Amount of moisture absorbed by fabric	~105%	~46%	<i>Ceritella™ absorbs far less sweat initially.</i>
Wet Take-Up (After Wash) Brand Internal	Moisture storage after laundering	~137%	~128%	<i>Absorption converges, but Ceritella™ still stores slightly less moisture.</i>
Drying Time (Fresh) Brand Internal	Time required to dry after wetting	~41 min	~24 min	<i>Ceritella™ dries ~40% faster due to lower moisture load.</i>
Drying Time (After Wash) Brand Internal	Drying after repeated laundering	~49 min	~48 min	<i>Similar drying time, but Ceritella™ starts from lower saturation.</i>
Evaporation Rate Brand Internal	Rate of moisture evaporation	~0.098 g/h	~0.116 g/h	<i>Ceritella™ supports faster evaporation, critical for cooling.</i>
Surface Wetting Time (After Wash) AATCC 195	Speed of liquid sweat wetting fabric surface	< 1 sec (instant)	~29 sec (delayed)	<i>Ceritella™ maintains controlled wetting behavior; traditional fabric becomes immediately hydrophilic.</i>
Vertical Wicking (After Wash) AATCC 195	Liquid sweat transport distance	~170–175 mm	~70–100 mm	<i>Traditional fabric floods with sweat; Ceritella™ limits saturation and promotes evaporation.</i>

Data from the brand's internal testing methods, as well as tests conducted using AATCC methodology.