



MoistCycle™ (吸放湿機能中綿)

ムレを吸って、外へ放す。快適な着心地へ。
Absorbs humidity and releases it outward for comfort.

MoistCycle™は、繊維に特殊な吸放湿性能因子を練り込みポリマーを改質。
衣服内のムレやベタつきの要因となる水分(湿度)を吸収し、
外側へ放散することで、
快適な着心地感をサポートする高機能綿です。

MoistCycle™ modifies the polymer by blending special moisture absorb/release performance factors into the fiber. It absorbs moisture (humidity) inside clothing that causes stuffiness and clamminess, and releases it to the outside, helping provide a more comfortable wearing experience.

吸湿量:1.54倍
吸湿速度:1.15倍
放湿速度:1.46倍
(普通綿比／吸放湿性試験)

Moisture absorption amount : 1.54×
Moisture absorption speed : 1.15×
Moisture release speed : 1.46×
(vs. regular cotton / moisture absorb & release test)



吸湿
Moisture absorption



放湿
Moisture release



快適
Comfortable

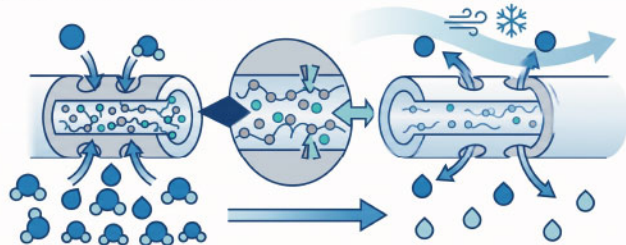
● 仕組み

Mechanism

繊維に特殊な吸放湿性能因子を練り込むことでポリマーを改質し、衣服内の水分(湿度)を吸収・外側へ放散する機能を持たせています。

By modifying the polymer through blending special moisture absorb/release performance factors into the fiber, MoistCycle™ enables absorption of moisture (humidity) inside clothing and release to the outside.

湿気を外に逃がし、快適に。



It allows moisture to escape, keeping you comfortable.

● 試験データ (吸放湿性試験)

Test data (Moisture absorb & release test)

- 吸湿量: 通常綿に対して1.54倍 (112 → 173 $\mu\text{g}/\text{cm}^2$)
- 吸湿速度: 通常綿に対して1.15倍 (94 → 108 $\mu\text{g}/\text{cm}^2\cdot\text{min}$)
- 放湿速度: 通常綿に対して1.46倍 (-3.7 → -5.4 $\text{mg}/\text{g}\cdot\text{min}$)

Moisture absorption amount : 1.54xvs. regular cotton
(112 → 173 $\mu\text{g}/\text{cm}^2$)

Moisture absorption speed : 1.15xvs. regular cotton
(94 → 108 $\mu\text{g}/\text{cm}^2\cdot\text{min}$)

Moisture release speed : 1.46x vs. regular cotton
(-3.7 → -5.4 $\text{mg}/\text{g}\cdot\text{min}$)

BOKEN 吸放湿性試験方法 (BQE A 034)

測定環境: 25°C・40%RH (初期) / 25°C・80%RH (吸湿)

測定条件: 吸湿ボックスへ移動し吸湿、

平衡後に初期条件へ戻し放湿させ測定

測定方法: 普通中綿60gとMoistCycle加工中綿60gを比較、
2試料同条件で測定

BOKEN Moisture Absorb & Release Test Method (BQE A 034)

Environment : 25°C / 40% RH (initial)

→ 25°C / 80% RH (absorption)

Condition : Specimens transferred to absorption box until equilibrium, then returned to initial box for release measurement

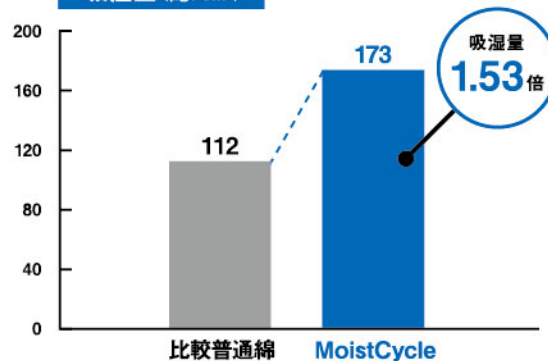
Method : Regular cotton batting 60g vs.

MoistCycle treated cotton batting 60g,
measured simultaneously under
identical conditions

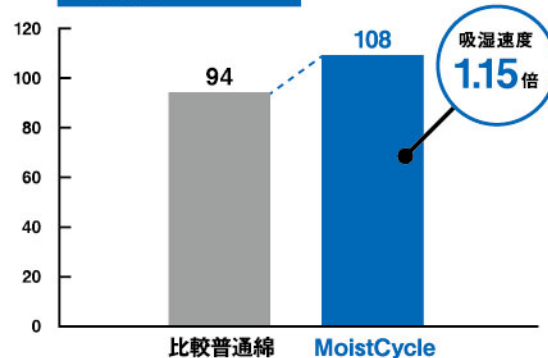
吸放湿性試験により、普通綿と比較すると
MoistCycle™は、1.54倍多くの水分(湿度)を
1.15倍の速さで吸収し、1.46倍の速さで外側へ放散し、
快適な着心地感を提供する優れた高機能綿です。

Based on the moisture absorb/release test,
compared with regular cotton, MoistCycle™ absorbs 1.54x
more moisture (humidity) at 1.15x the speed,
and releases it outward at 1.46x the speed,
helping provide a more comfortable wearing experience.

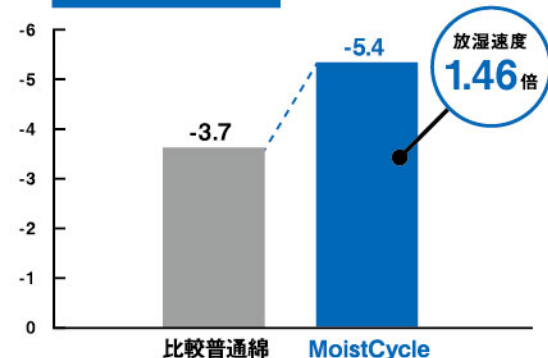
吸湿量 ($\mu\text{g}/\text{cm}^2$)



吸湿速度 ($\mu\text{g}/\text{cm}^2\cdot\text{min}$)
※1分経過時点



放湿速度 ($\text{mg}/\text{g}\cdot\text{min}$)
※5分経過時点



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