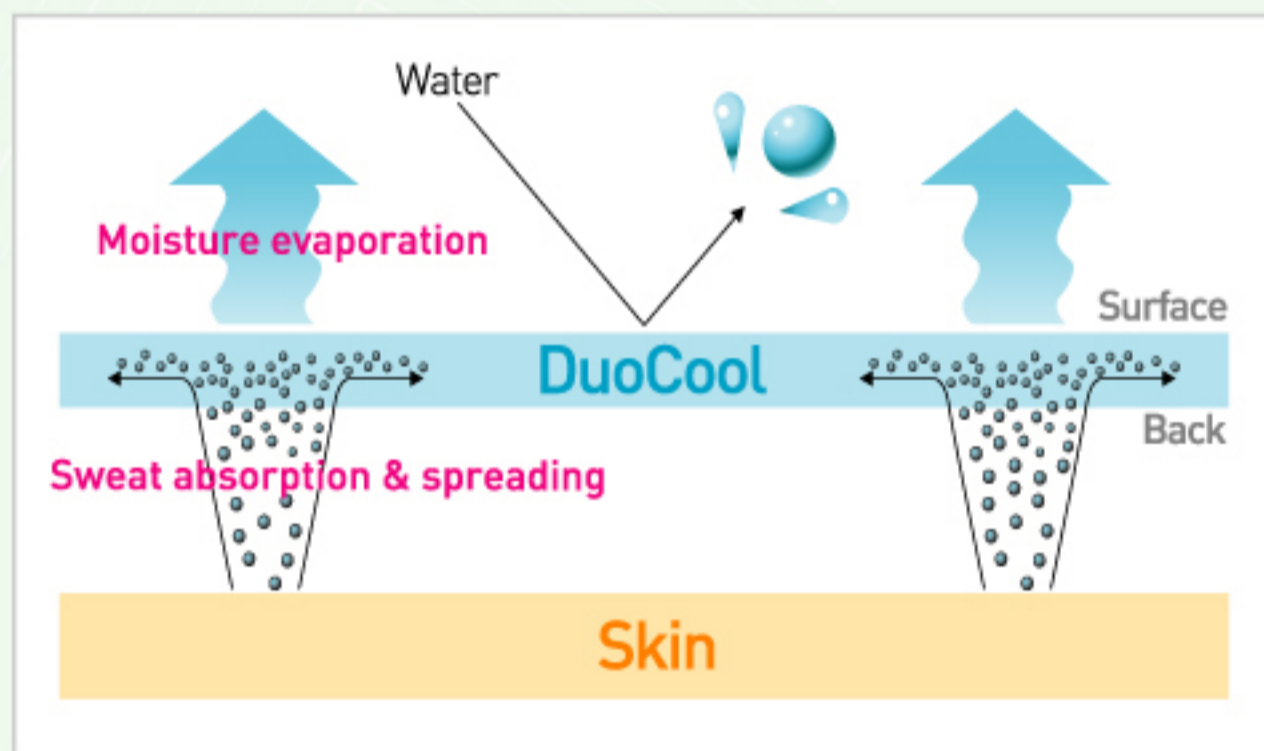# DuoCool
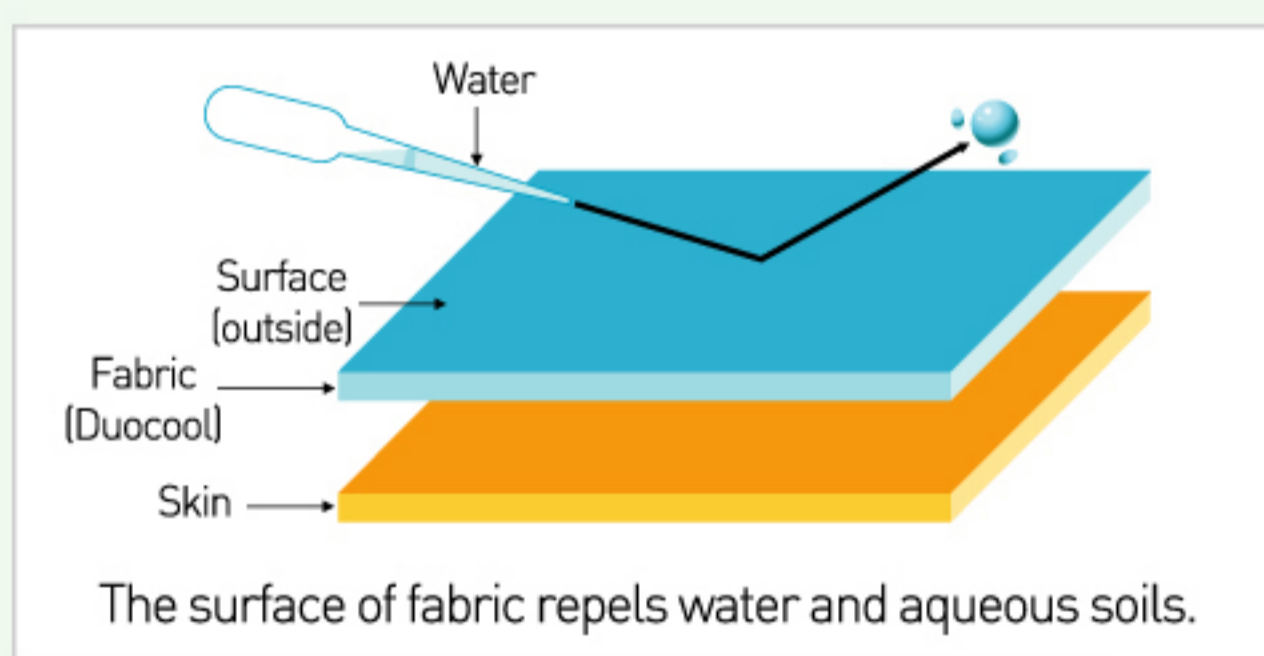
1. Introduction

- Surface of fabric : Water repellent
- Back of fabric : Water absorptive
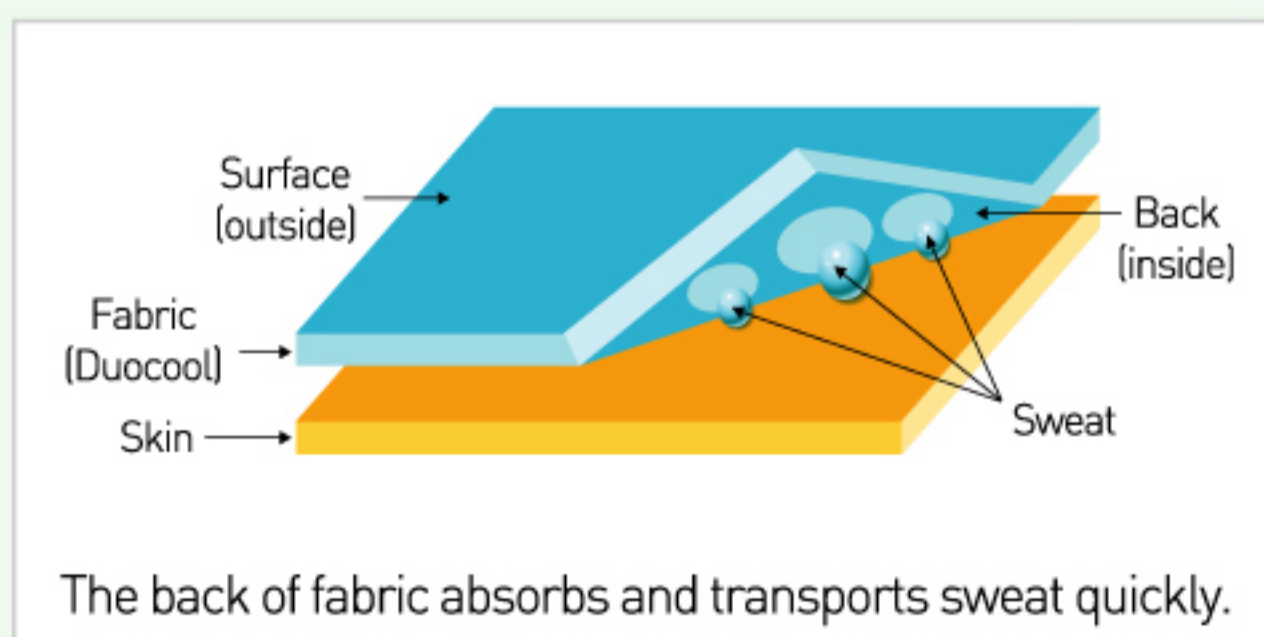

2. Features

Water repellency

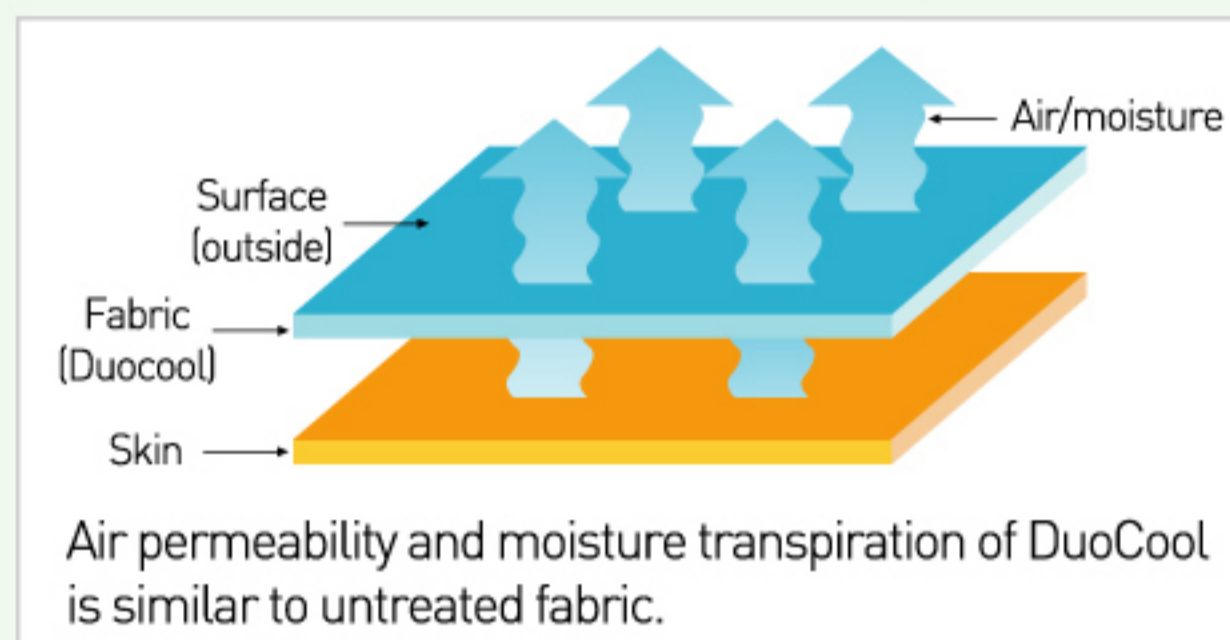The surface of fabric repels water and aqueous soils.

Water absorbency

The back of fabric absorbs and transports sweat quickly.

Air permeability/moisture transpiration

Air permeability and moisture transpiration of DuoCool is similar to untreated fabric.

Application

- Woven and knitted fabrics comprising cotton, rayon, polyester, nylon, etc.

Technology transfer to WS dyetech co., ltd.

3. Benefits

Better physical activity

- Low water content in wet makes feel better.

Wearing comfort

- Comfortable environment between body and clothing due to quick absorption and transport of sweat
- Good air circulation due to excellent air permeability
- Soft handle similar to normal product

Quick drying

- Sweat dries quickly.
- Quick drying after laundry : economical

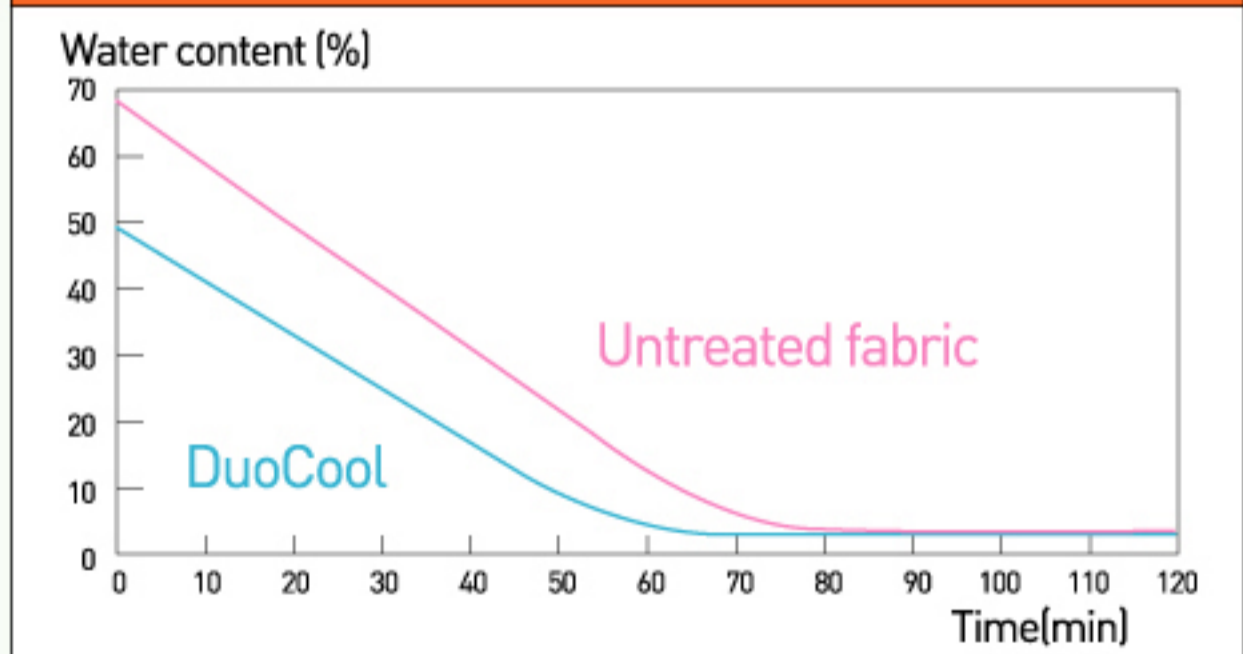## 4. Performance

Surface repellency(AATCC 193)

- 50 cycle-laundry : above grade 5
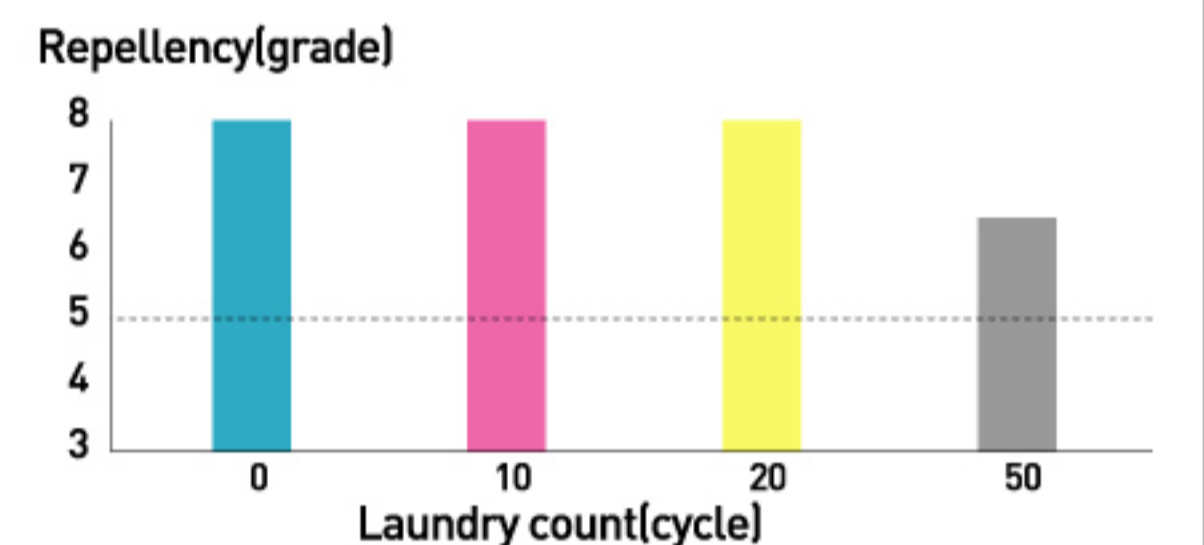
Back absorbency(AATCC 79)

Laundry count (cycle)	Absorption time (sec)
0	below 1
10	below 1
20	below 1
50	below 1

- 50 cycle-laundry : below 1 sec.

Drying rate(JIS L 1018)

- DuoCool dries faster ca. 30% than untreated fabric.

Back absorbency(AATCC 79)

Sample	Air permeability(cfm)
DuoCool	66.2
Untreated	66.3

- Air permeability of DuoCool is similar to untreated fabric.
- ※ DouCool : Ne 20 single jersey, cotton 100%