

**HYOSUNG**

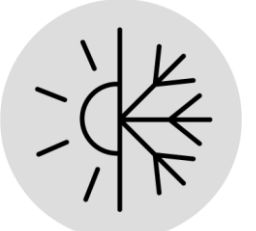



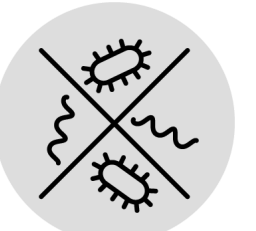
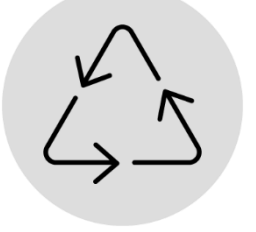




**HYOSUNG Performance Textiles**  
**Nylon and Polyester products**

# Integrated Textile Company- Product offerings

## HYOSUNG

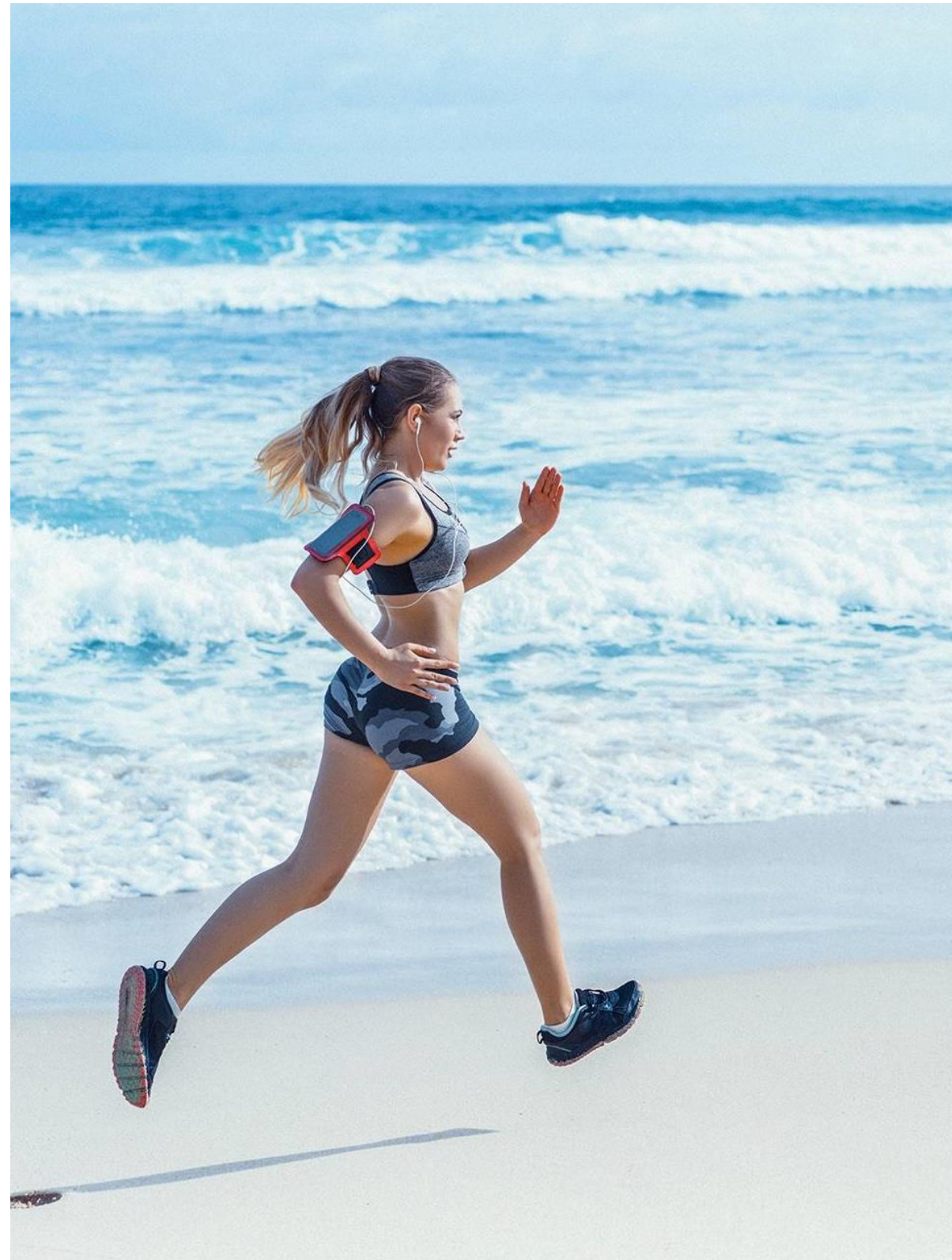
### Mipan® Nylon and Polyester

	Performance	Fiber type	Product	Characteristics		Performance	Fiber type	Product	Characteristics
 <b>Thermal regulation</b>	Cooling	Polyester	askin	<ul style="list-style-type: none"> <li>- Cooling</li> <li>- Quick dry</li> <li>- UV protection</li> <li>- Opacity</li> </ul>	 <b>Mechanical stretch</b>	Comfort stretch and lasting fit	Polyester	Xanadu	<ul style="list-style-type: none"> <li>- Comfortable stretch and recovery</li> <li>- Color fastness</li> <li>- Quick dry</li> <li>- Easy care with less wrinkle</li> </ul>
		Nylon	MIPAN aqua-X						
	Heat Generation	Polyester	aeroheat EXTREME	<ul style="list-style-type: none"> <li>- Heating generation</li> <li>- Quick dry</li> <li>- Lightweight</li> </ul>					
 <b>Soft-touch</b>	Natural touch	Polyester	Cotna	<ul style="list-style-type: none"> <li>- Natural and comfort touch</li> <li>- Great pilling resistance</li> <li>- Quick dry</li> </ul>	 <b>Dyeability</b>	Color fastness	Polyester	Prizma	<ul style="list-style-type: none"> <li>- Excellent color fastness</li> <li>- Deep and vivid color</li> <li>- Melange effect</li> </ul>
	Lightweight	polyester	Aerolight	<ul style="list-style-type: none"> <li>- Lightweight</li> <li>- Soft touch &amp; comfortable</li> <li>- Quick dry</li> </ul>					
 <b>Antimicrobial</b>	Antimicrobial	polyester	Aerosilver	<ul style="list-style-type: none"> <li>- Natural and comfort touch</li> <li>- Great pilling resistance</li> <li>- Quick dry</li> </ul>	 <b>Recycled</b>	GRS Certified Recycled	Polyester	Regen	100% post-consumer
								Regen ocean	OBP certified From Ocean PET bottles
								REGEN JEJU	From JEJU island PET bottles
								REGEN SEOUL	From Seoul city PET bottles
 <b>Robust</b>	Robust & durable	Nylon	MIPAN robic	<ul style="list-style-type: none"> <li>- High-tenacity and durability</li> <li>- Superior resistance to tear and abrasion</li> <li>- Great pill resistance</li> </ul>	GRS Certified Recycled	Nylon	MIPAN regen	100% pre-consumer	
							MIPAN regen Ocean	post-consumer recycled nylon From fishing nets waste	
 <b>Quick dry</b>	Quick dry	Polyester	Aerocool	<ul style="list-style-type: none"> <li>- Quick dry</li> <li>- Comfortable fit</li> </ul>	Functional recycled	Polyester	Regen askin	cooling	
							Regen cotna	Natural touch	
							Regen aerolight	lightweight	
							Regen aerocool	Quick dry	
							Regen xanadu	Comfort stretch	
							Regen aerosilver	Antimicrobial	
							Regen prizma	Color fastness	
Functional Recycled	Nylon	MIPAN regen aqua-x	Cooling						
		MIPAN regen robic	High-tenacity						

# MIPAN aqua-X | askin

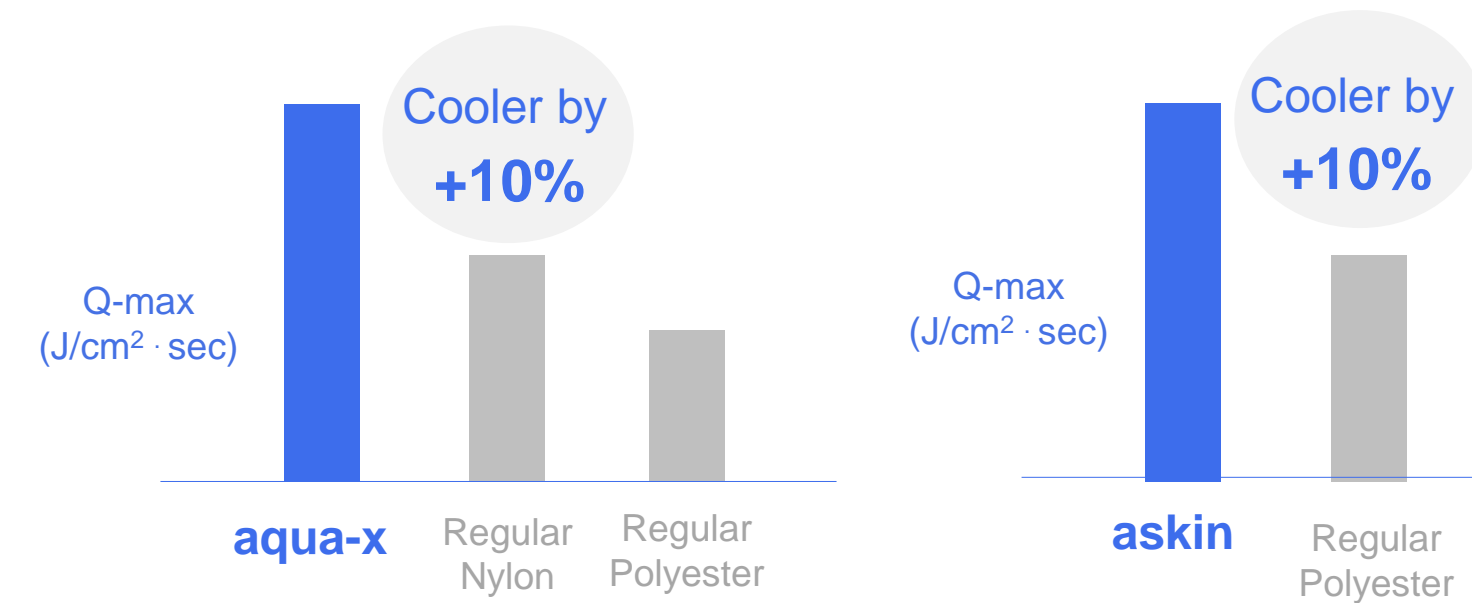
# HYOSUNG

## Beyond Cool



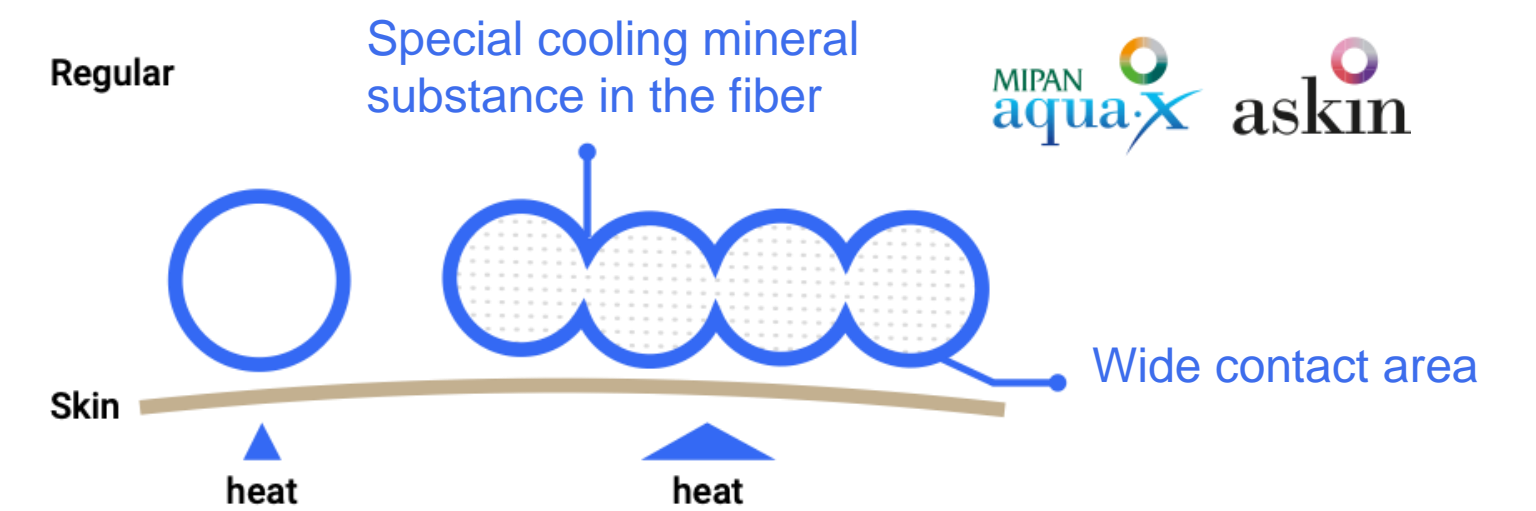
### Cooling Action

- Special cross section offers more skin contact to absorb heat
- Minerals in the yarn absorb heat from the skin and transfers it quickly to the outside



### Quick Absorption and Fast Drying

- Channels and wide surface area created by aqua-x & askin accelerate quick absorption and fast drying



### Excellent UV protection

- Special cross section and minerals in the yarn scatters light and prevents the transmission of light

### Opacity in white and light colors

- Minerals and cross section in the yarn help to lessen transparency in white and light colors



	item	denier	Filament	Luster
aqua x	FDY	20,30	34	BRT, FD
		35	24	FD
		50	24	
		70	48	
DTY	FD	40	24,34	
		70	68	
		140	136	

	item	denier	Filament	Luster	
askin	SDY	30	36	FD	
		45	24		
		50	72		
		65	72		
		75	36		
	DTY	FD	50		72
			65		72
			75		36
	ITY	Melange	55		60
			80		48

Cooling Action

Quick Absorption and Fast Drying

Excellent UV protection

Opacity in white and light colors

Recycled cooling function—regen askin/ aqua-x

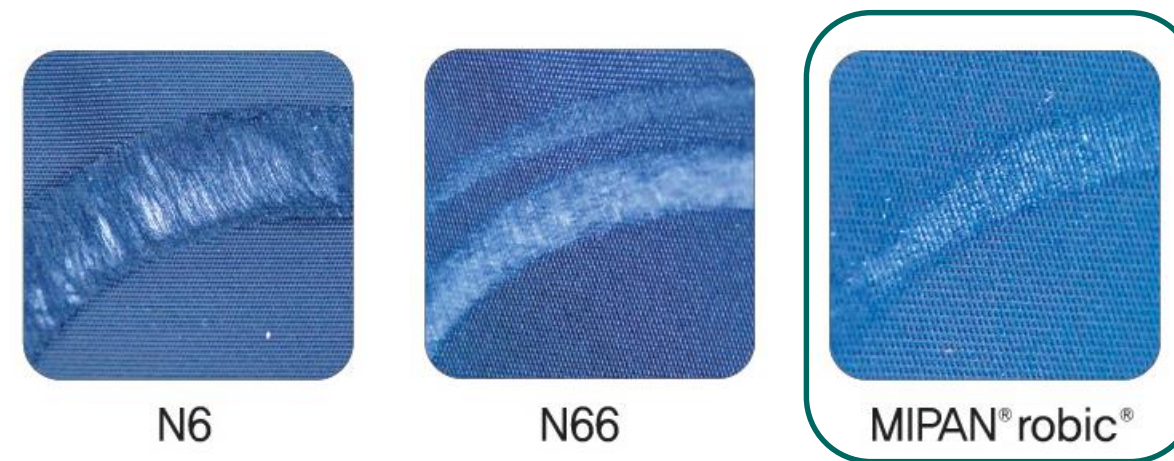
# MIPAN robic



Durability you can trust



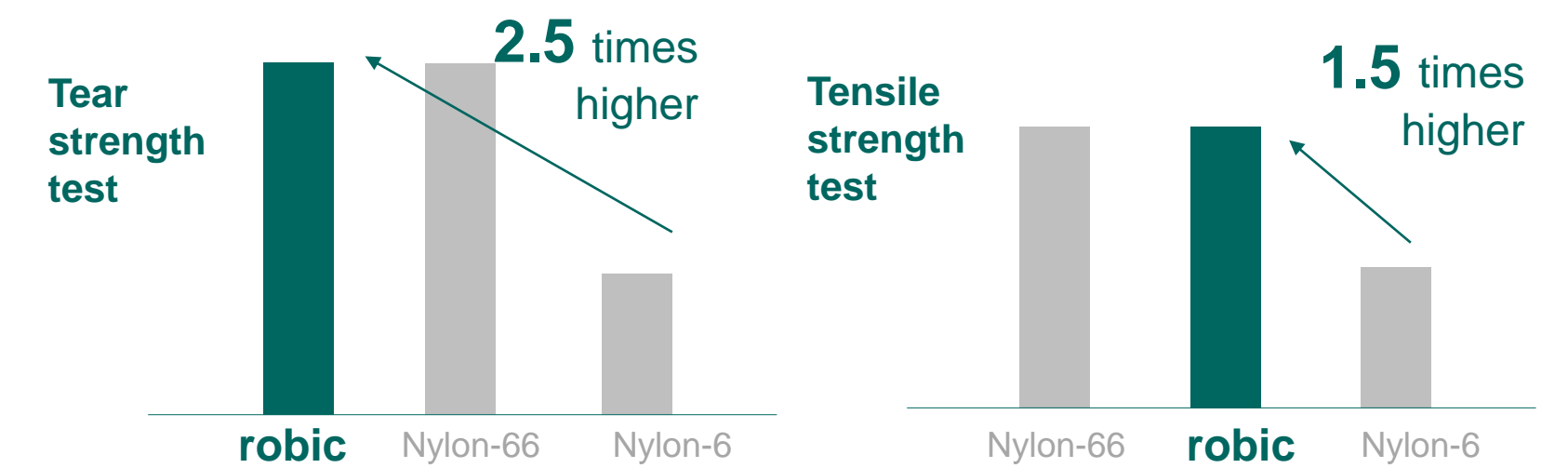
## 🕒 Excellent high-tenacity & durability



• Comparison of yarn

## 🌊 Superior resistance to tear and abrasion

- robic is 2.5times higher in tear strength and 1.5 times higher in tensile strength than Reg.nylon 6.



🕒 Excellent high-tenacity & durability

🌊 Superior resistance to tear and abrasion

🛡️ Great pillng resistance

♻️ Recycled high-tenacity- MIPAN regen robic



item	denier	Filament	Luster
robic I Fine	10	5	BRT
	15	7	
robic I Touch	*70	48	FD
	*230	68	
robic I Original	70	34	BRT
	100	24	
	210	24	
	*230	68	
	*460	136	

item	denier	Filament	Luster
robic I I & I I I	210	34	BRT
	215	24	
	280	34	
	420	68	
	430	48	
	630	68	
	645	72	
	840	136	
860	96		

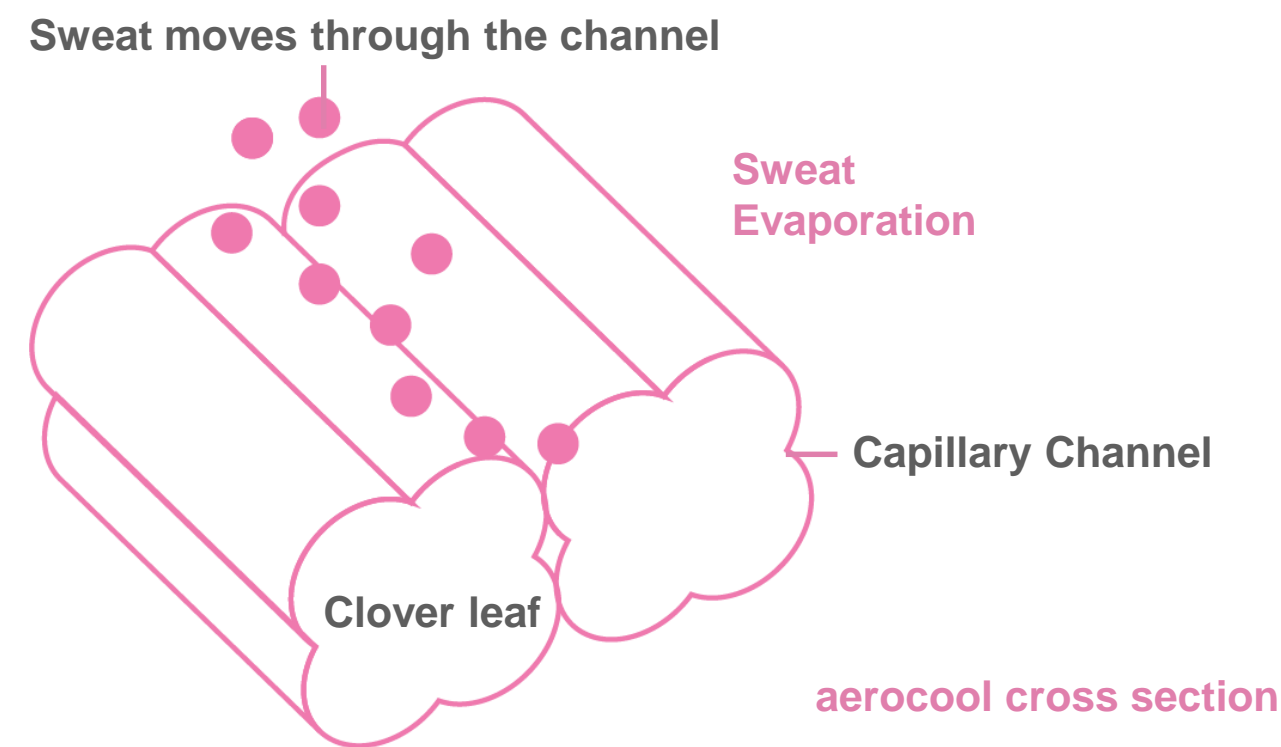
\*70d ->75d/160d/320d ATY    \*230d,460d-> 500d/1000d ATY

## Quick dry



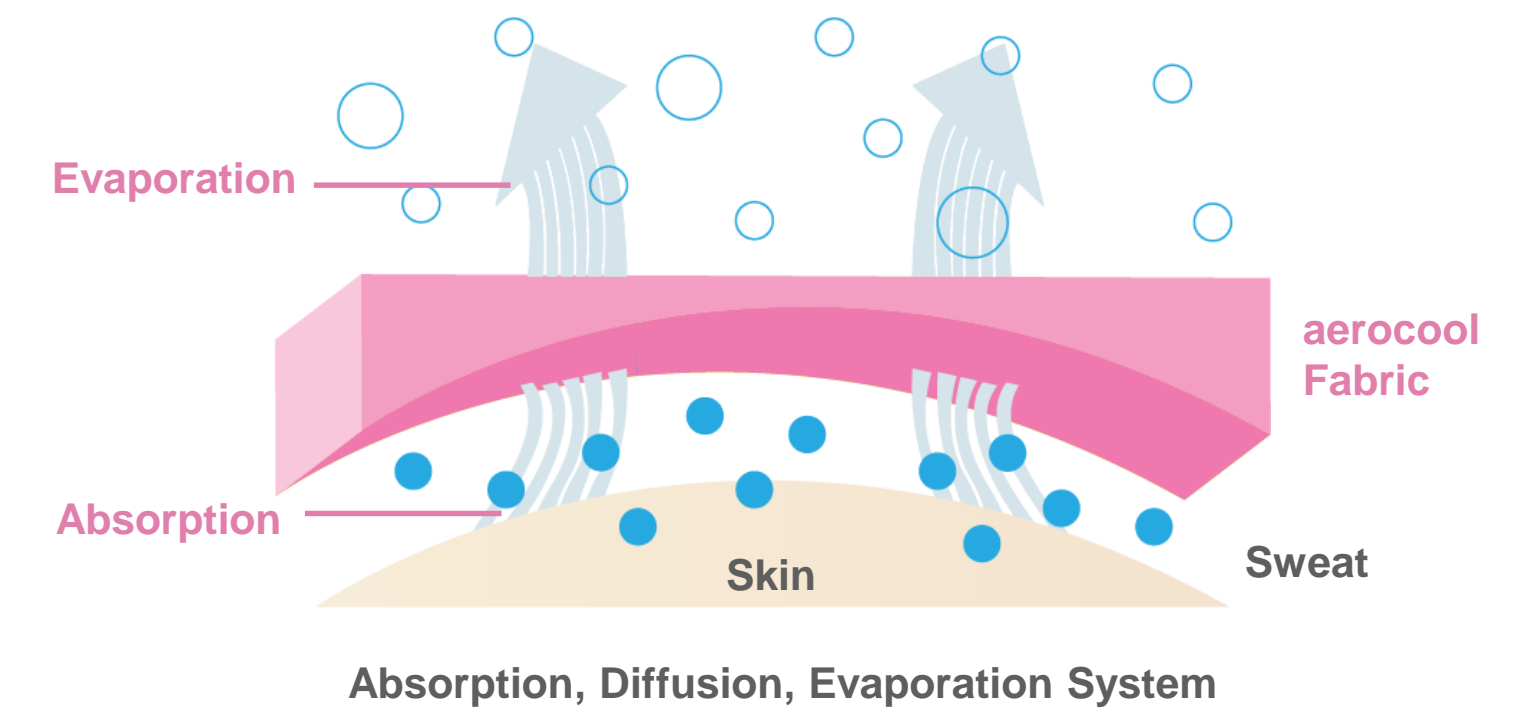
### Quick absorption and Fast Drying

- Clover leaf cross section offers a wide surface which accelerates the movement of sweat away



### Freshness

- Superior sweat-absorbing, quick-drying properties provides better breathability, which increases your performance and endurance.



ITEM	DENIER	FILA	LUSTER
SDY	50	36	
DTY	50	36	SD
	75	36,72	
	100	36	
	150	72,144	



Quick absorption and Fast Drying



Freshness



Recycled quick dry-regen aerocool

# aerolight

# HYOSUNG

Light as air



## Lightweight

- Special C-shaped hollow core cross section offers 15% lighter weight than regular yarn.



## Super soft touch for extra comfort

- Multifilament's deliver soft touch and added comfort



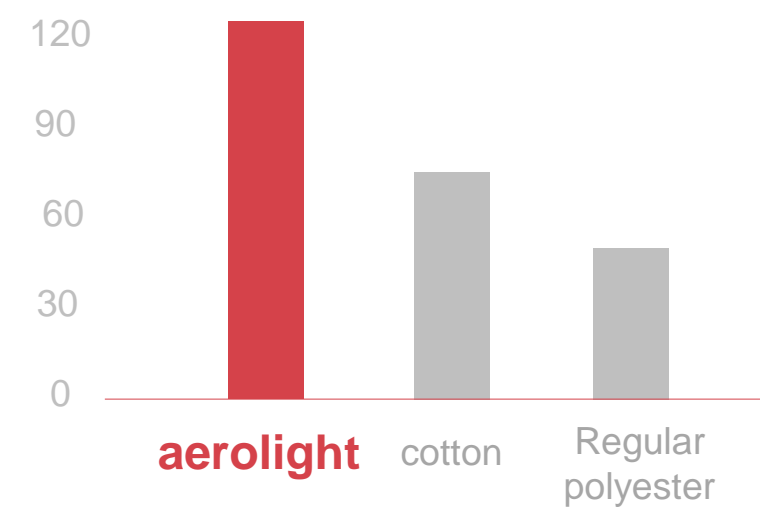
aerolight cross section



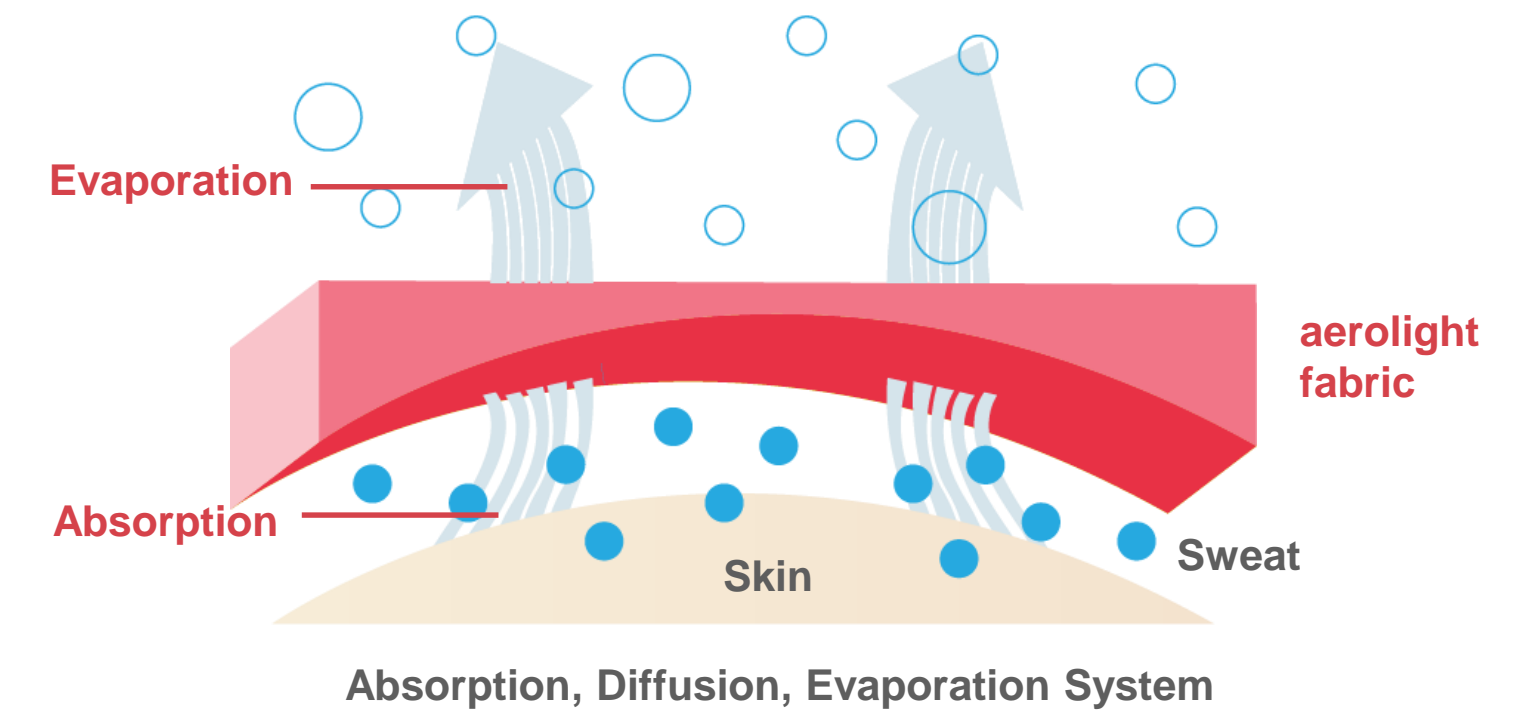
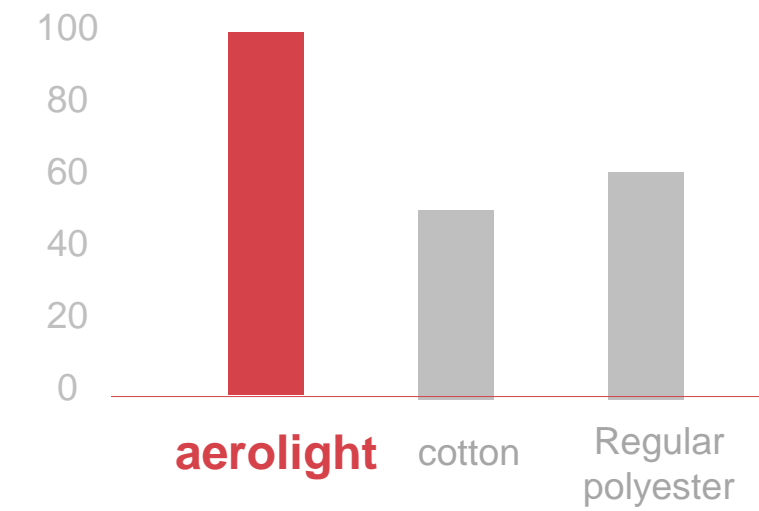
## Quick absorption and quick drying

- Special cross section and multi filament create wider surface area, which delivers quick absorption and fast drying

Absorption(by JISL 1096)



Drying(by JISL 1096)



Lightweight



Quick absorption and quick drying



Super soft touch for extra comfort



Recycled light weight as air—regen aerolight



ITEM	DENIER	FILA	LUSTER
DTY	65	72,144	SD
	130	144,288	

# aeroheat Extreme

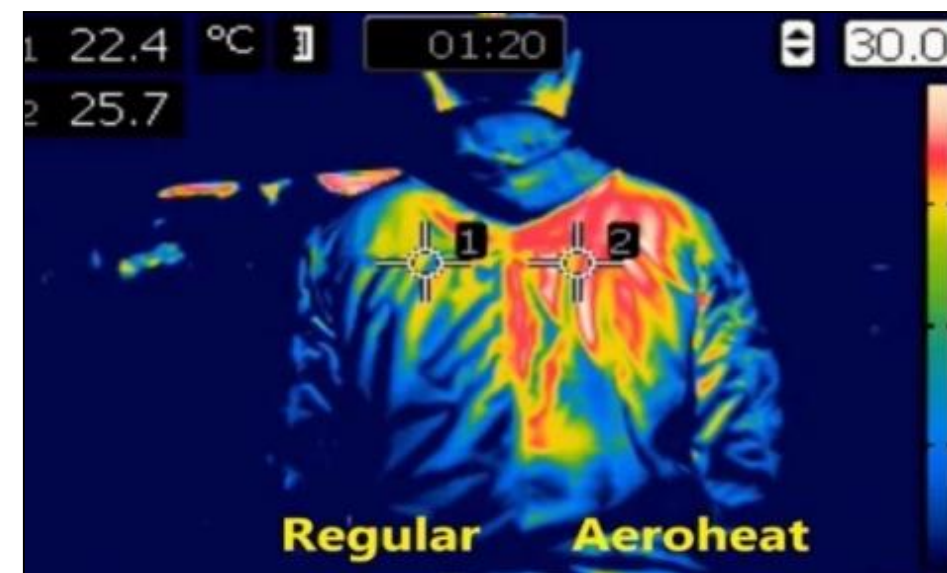
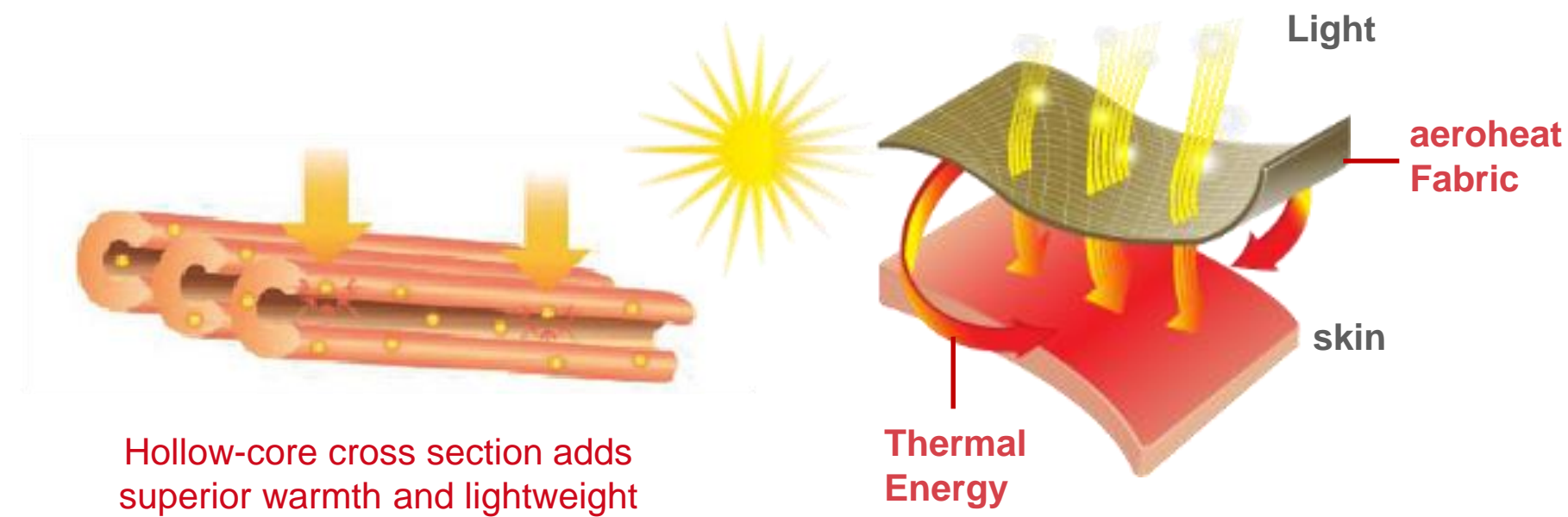
# HYOSUNG

Feel the heat



## Heat-generating function

- aeroheat absorbs solar and artificial light to radiate thermal energy through mineral substances in the fiber.



Temperature	Light	Time	Relative humidity	Wind speed
3°C	50,000lx	5min	37(±5)%	3m/s

Aeroheat test sampel(170gsm)  
 Face: Regular polyester 100/144 DTY(75%)  
 Back: aeroheat 65/72 DTY( 25%)

Regular test sampel(170gsm)  
 Face: Regular polyester 100/144 DTY(75%)  
 Back: regular polyester 75/72 DTY( 25%)

# aeroheat

## EXTREME



Heat-generating fiber

Lightweight with hollow-core cross section

Moisture management for freshness

ITEM	DENIER	FILA	LUSTER
DTY	65	72	SD
	130	144	

Natural Touch

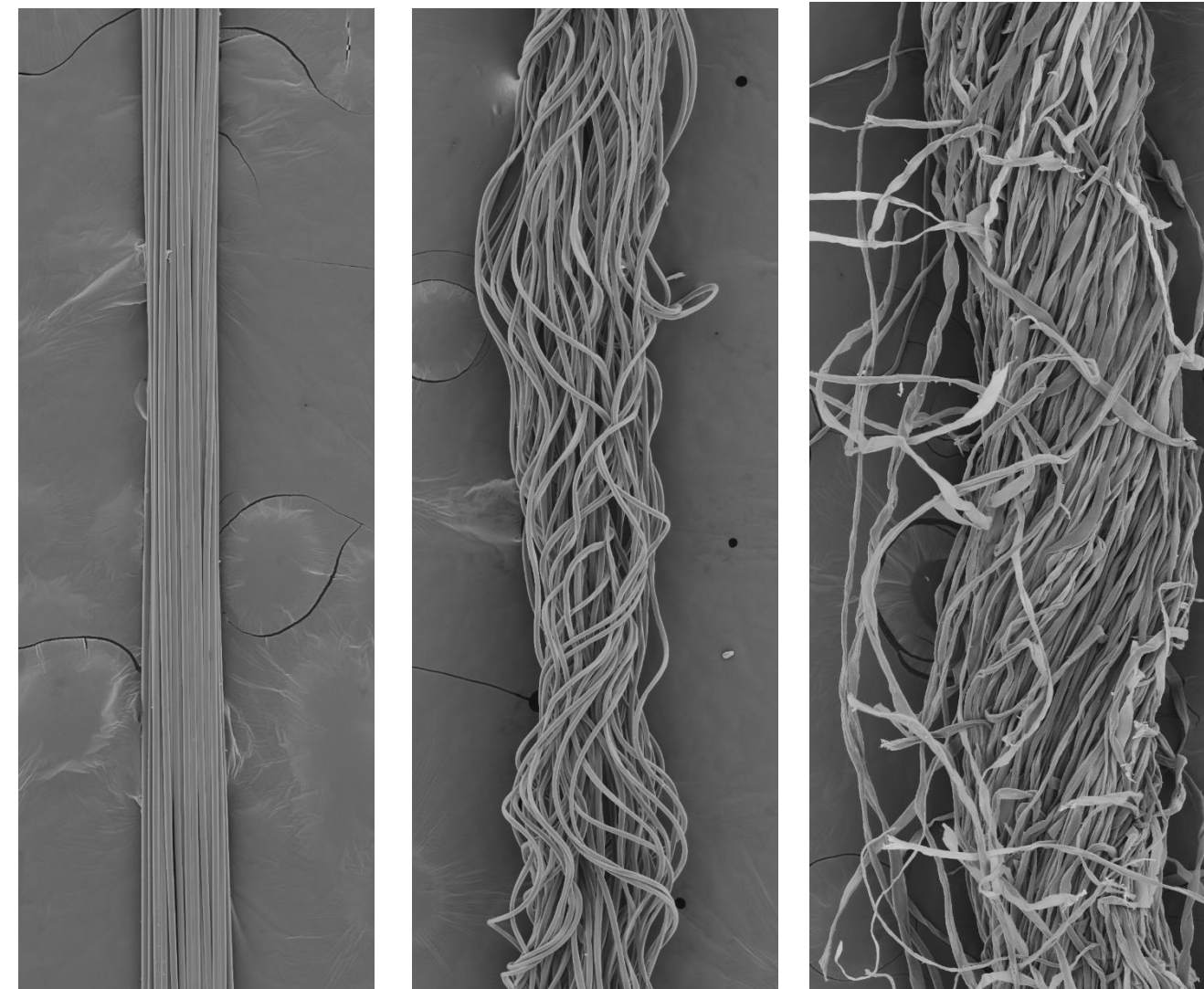


 Natural touch

- Cotna polyester offers soft, cotton-like touch by difference of shrinkage



\* Comparison of Bulkiness



Regular PET

cotna

cotton



ITEM	DENIER	FILA	LUSTER
DTY	55	72	SD
	80	72	SD
	130	108	SD
	160	144	
	320	288	

 Natural touch (cotton-like)       Quick absorption and fast drying

 Good pilling resistance

 Recycled cotton-like-regen cotna



prizma

HYOSUNG

Enjoy the vivid colors



Excellent color fastness

prizma is cation-dyeable polyester, which has superior color fastness to regular PET and Nylon. You can achieve all-over rich & vivid color and mélange effect with prizma



Regular Polyester



prizma

\* Comparison of dyeing property after washes



Deep and vivid color

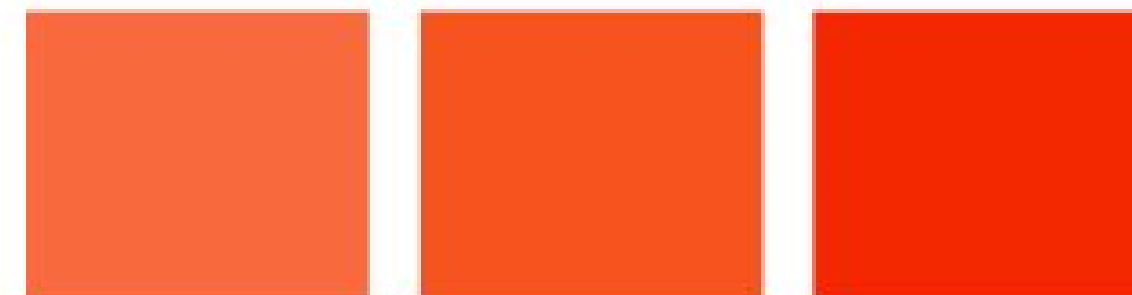
▪ Dyeable at low temperatures under normal pressure

100°C

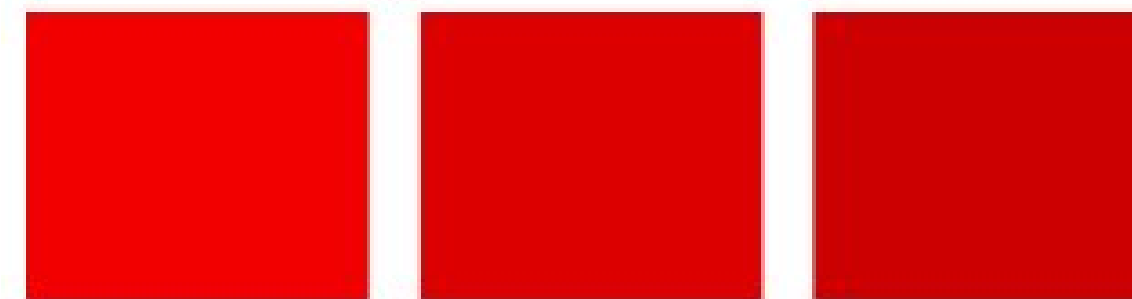
110°C

120°C

Reg. PET



prizma



ITEM	DENIER	FILA	LUSTER
SDY	35,40,50	24	SD
	75	36,72	
	300	10	BR,SD
DTY	35	24	SD
	50	72	
	75	36,72	
	150	48	
	300	96	Melange
	75	72	
150	108		



Excellent color fastness



Dyeable at low temperatures under normal pressure



Deep & Vivid color



Melange effect



Recycled excellent color fastness- prizma

# aerosilver

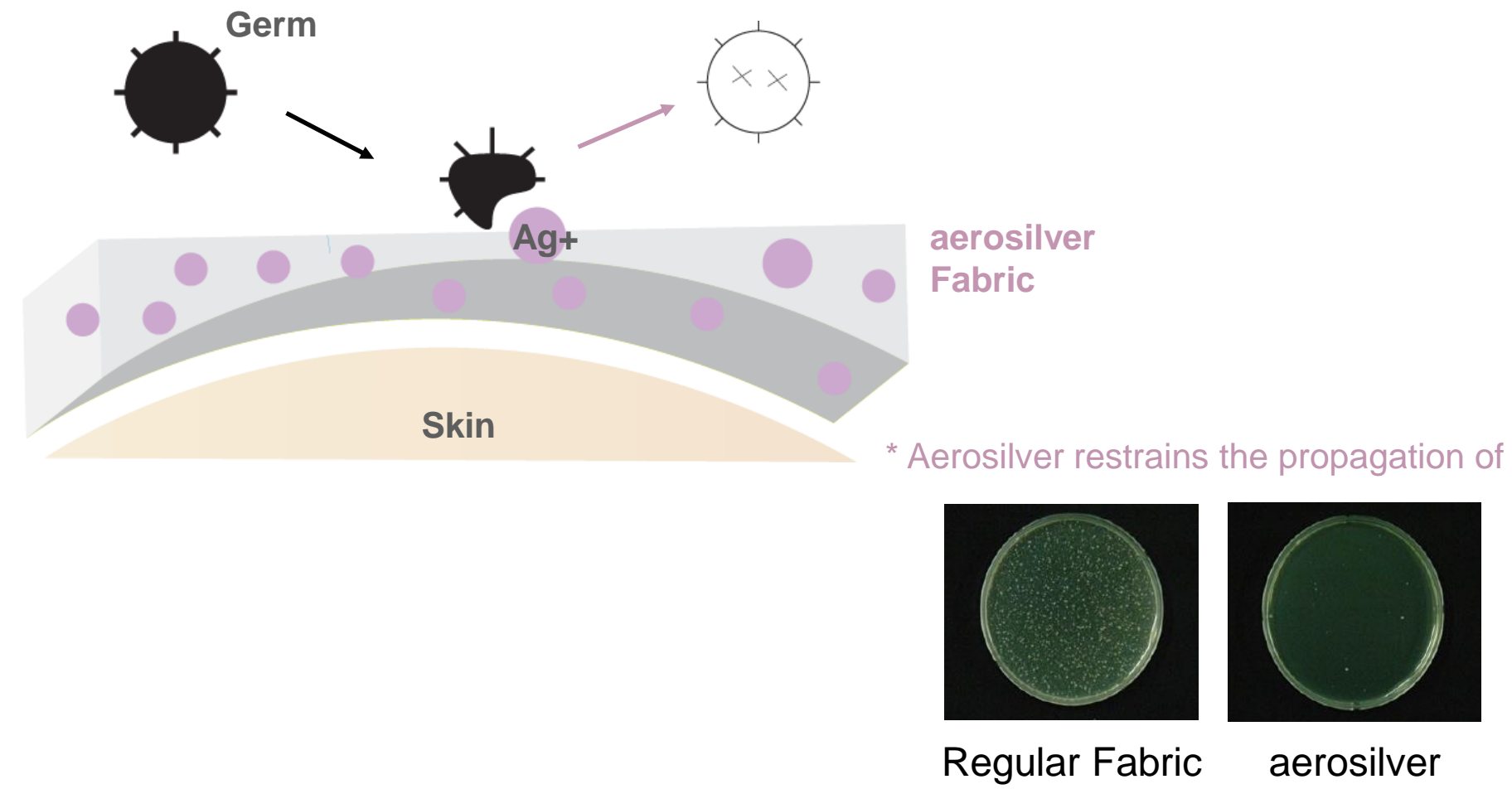
# HYOSUNG

## Long lasting freshness



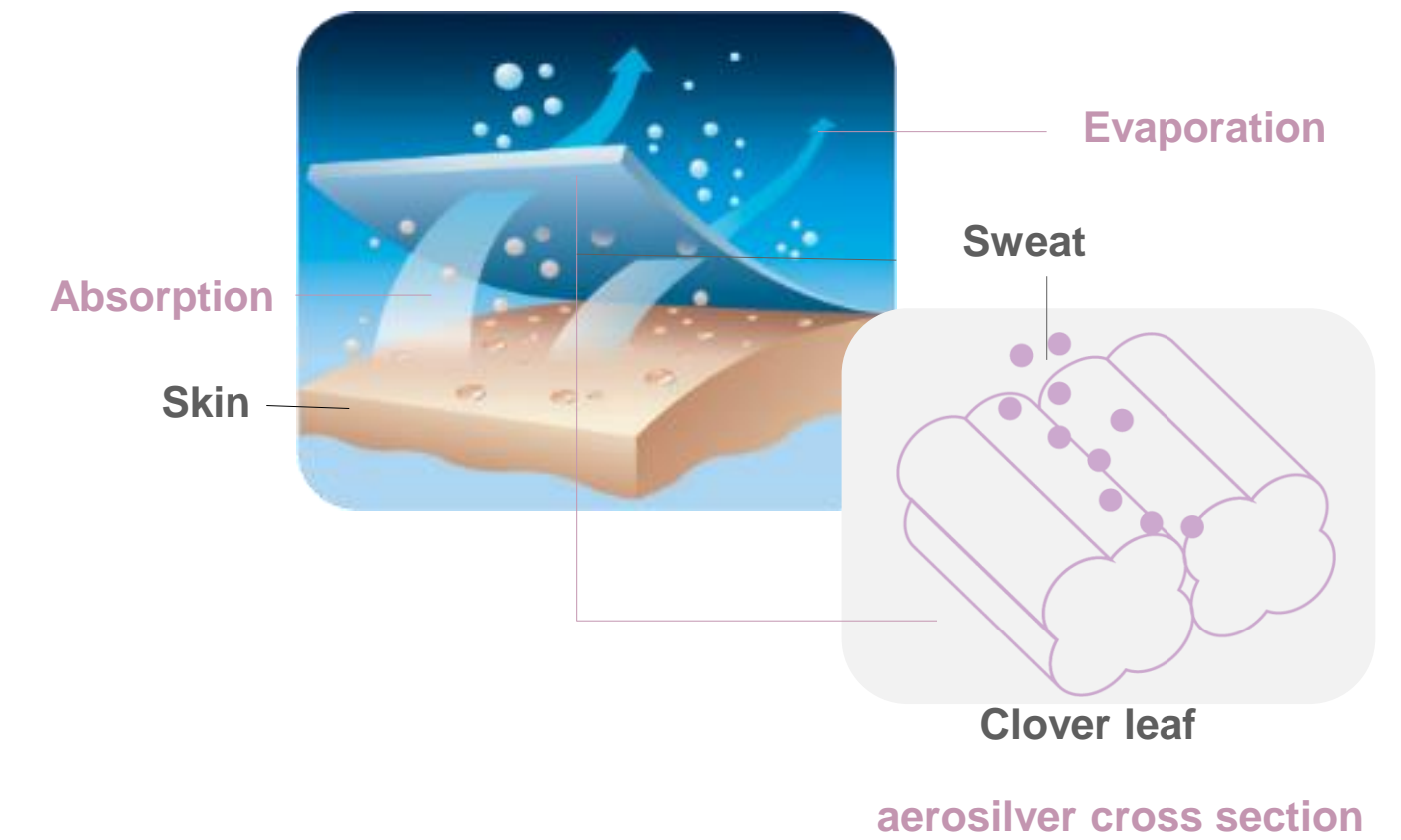
### Antimicrobial

- Spun in silver ingredients reduce the growth of highly tolerant bacteria, such as MRSA, Staphylococcus and Pneumococcus.



### Quick absorption and fast drying

- Clover leaf cross section offers a wide surface which accelerates the movement of sweat away.



Antimicrobial action

Quick absorption and fast drying

Recycled antimicrobial -regen aerosilver

# aerosilver



ITEM	DENIER	FILA	LUSTER
DTY	50	36	SD
	75	36,72	
	150	72,144	

# Xanadu

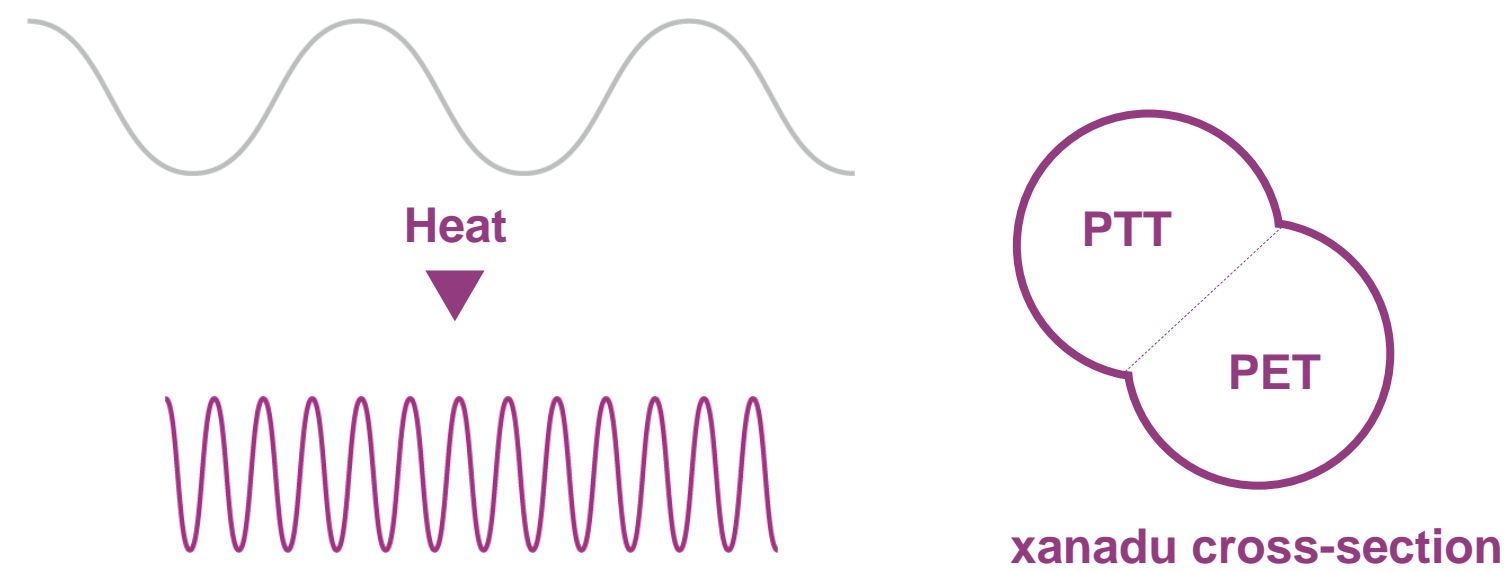


## Comfort, Style & Lasting Fit

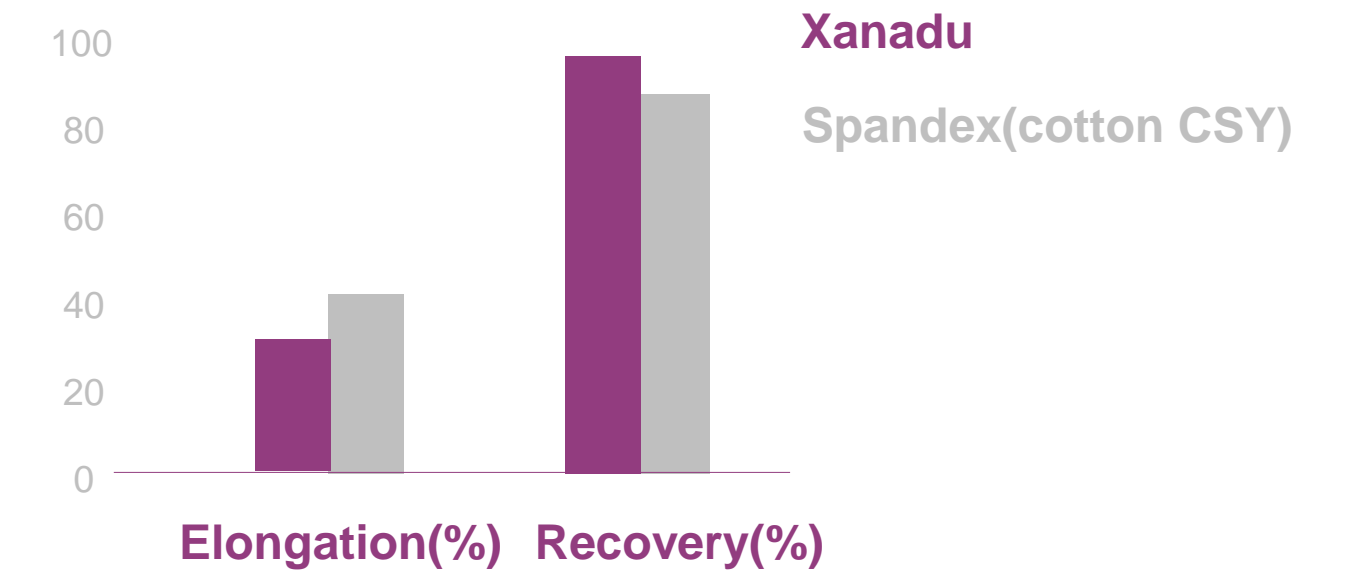


### Comfortable stretch and recovery

- Xanadu is conjugated polyester with unique properties of comfort and fit, which gives freedom of movement.
- In the PET-PTT bi-component structure, the PTT shows different characteristics when heated, causing the yarn to form a crimp



### Xanadu Performance

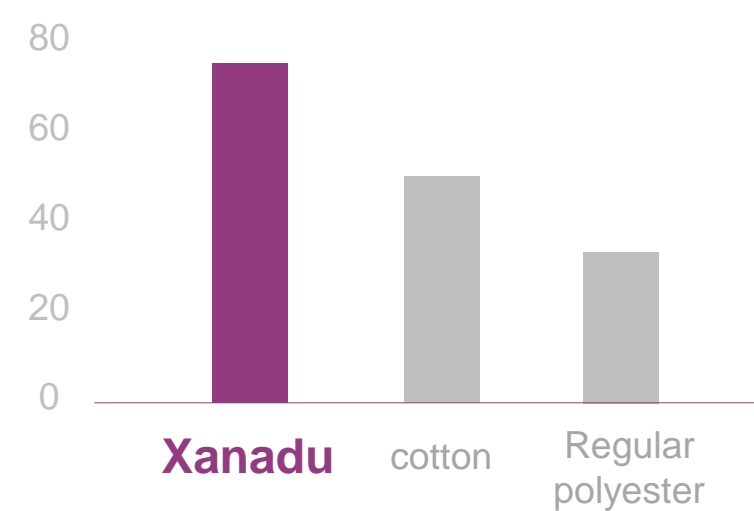


- Comfortable stretch polyester

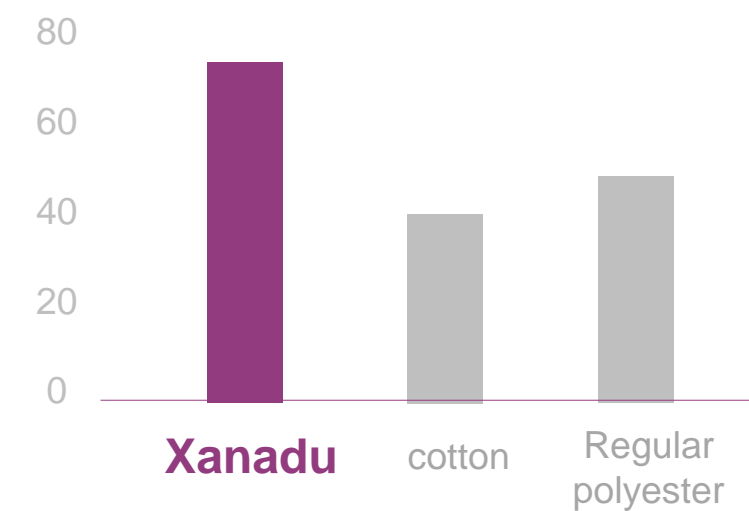


### Quick absorption and fast drying

Absorption(by JISL 1096)



Drying(by JISL 1096)



xanadu



ITEM	DENIER	FILA	LUSTER
SDY	30,40	18	BRT SD (PET)
	50	18	
	50	36	
	75	36	SD (PTT)
	150	72	
	300	144	



Comfortable stretch and recovery



Color fastness



Quick absorption and fast drying



Easy care with less wrinkle



Recycled comfortable stretch- regen xanadu