

HYOSUNG



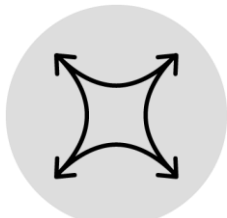


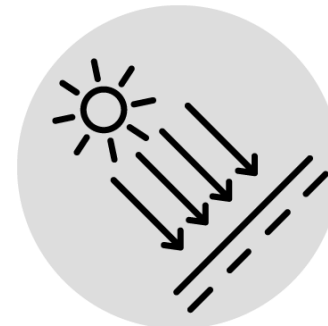
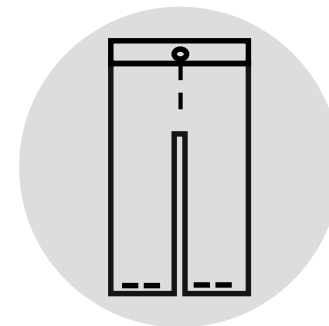
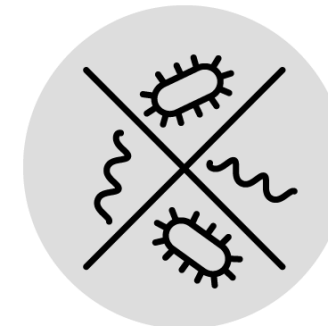



HYOSUNG Performance Textiles
creora® spandex products

Integrated Textile Company- Product offerings

creora® Spandex

HYOSUNG

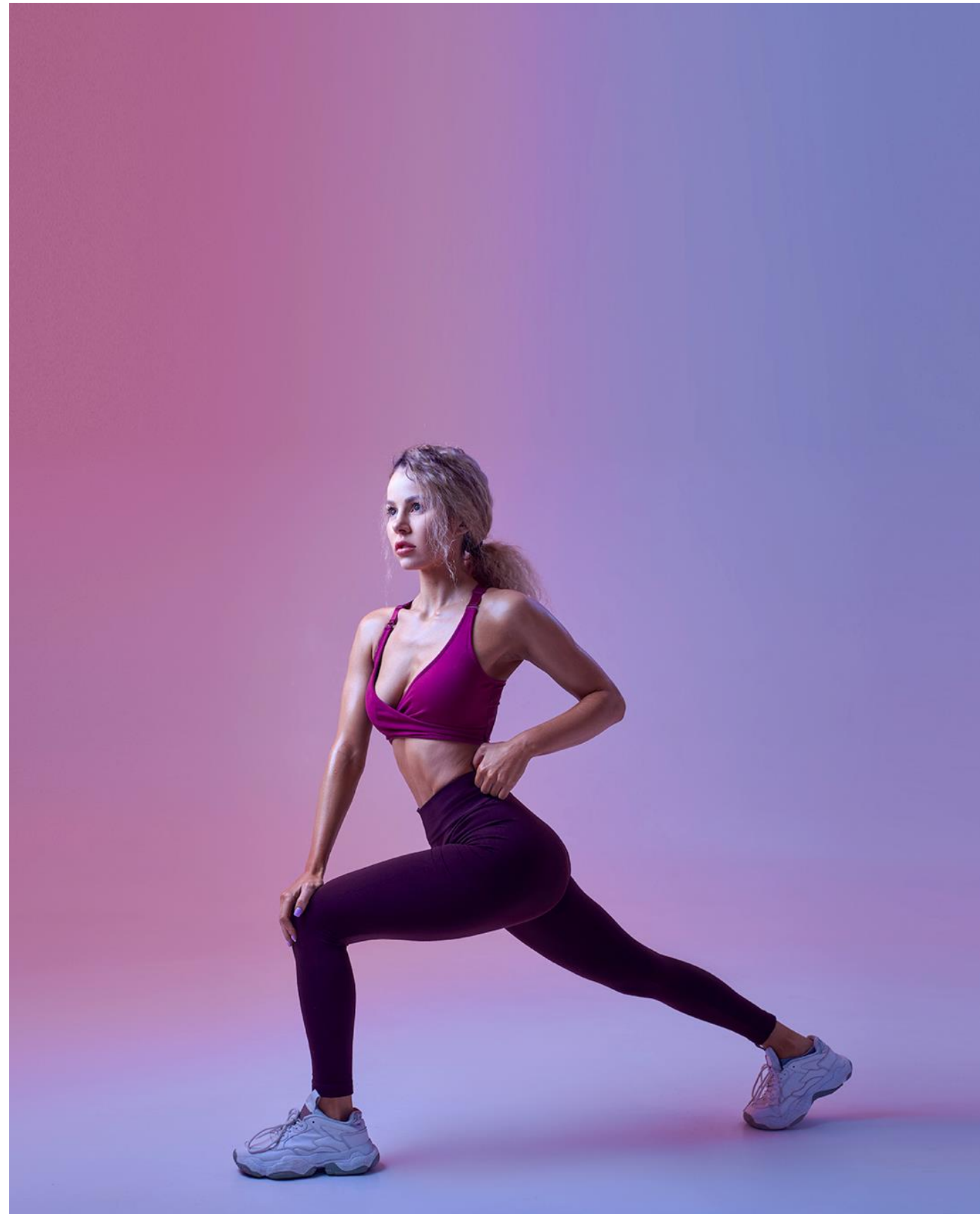


Use		Fiber Type					
<div></div> <div>High power performance</div>	<div>High-power performance</div> <div>creora® PowerFit fiber is part of Hyosung’s flagship spandex family-providing high power and excellent heat resistance, It delivers the broadest range of stretch fiber offerings enhanced by exceptional technology and quality.</div> <div>PowerFit</div>	+	With Function				
	<div></div> <div>Odor resistant</div> <div>creora® Fresh</div>		<div></div> <div>Chlorine resistant</div> <div>creora® highclo</div>	<div></div> <div>UV resistance</div> <div>creora® ActiFit</div>	<div></div> <div>For DENIM</div> <div>creora® 3D Max</div>	<div></div> <div>Antimicrobial</div> <div>creora® SHIELD</div>	
<div></div> <div>Dyeability</div>	<div>Deeper color</div> <div>Regular spandex can’t be dyed, but creora® Color+ spandex helps you to achieve all-over rich color without grin-through. creora® Black provides deeper, darker color with comfortable fit.</div>	>	Fiber type	Characteristics			
	creora® Color+		Reactive dyeable spandex for natural fibers				
			Creora® Black	Acid dyeable spandex for nylon			
				Black dope-dyed spandex			
<div></div> <div>Soft- touch</div>	<div>spandex for softness</div> <div>creora® eco-soft provides soft hand and whiter whiteness from low heat settable properties. creora® EasyFlex has a low stress strain curve, delivering soft stretch and comfort for the wearer.</div>	>	Fiber type	Characteristics			
	creora® eco-soft		Low-heat settable spandex				
			creora® EasyFlex	Superior soft-stretch spandex			
<div></div> <div>Sustainability</div>	<div>Sustainability solution</div> <div>Enabling customers to achieve their sustainability targets with recycled and bio-based spandex options. Life Cycle Analysis(LCA) available to demonstrate sustainable attributes such as carbon footprint, energy and water saving reduction etc.</div>	>	Fiber type	Characteristics			
	creora® regen		GRS-certified, 100% recycled spandex made from post industrial waste				
			creora® Bio-based	Spandex made with dent corn, a totally renewable resource that is not a human food source.			

creora® Power Fit

Feel the power

HYOSUNG



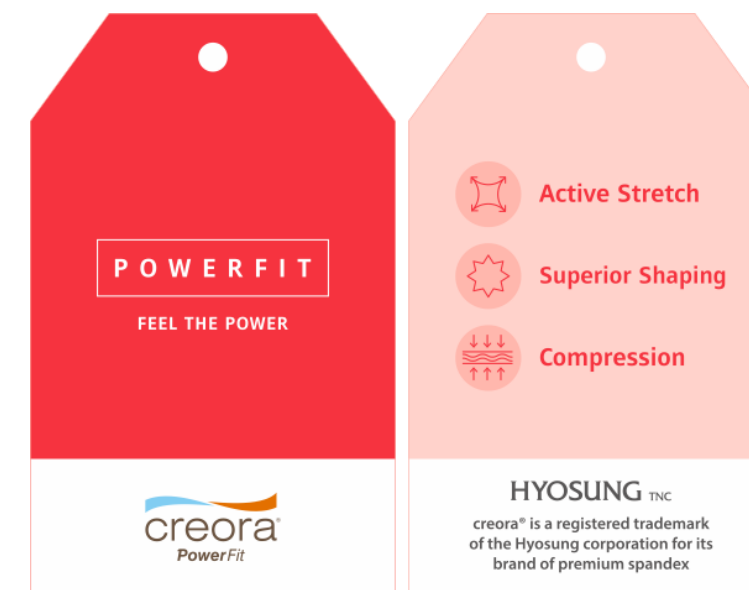
High-power performance spandex

creora® Power Fit is part of Hyosung's flagship spandex family- providing high power and excellent heat resistance, it delivers the broadest range of stretch fiber offerings enhanced by exceptional technology and quality.

- Higher Power
- Higher heat resistance
- Superior shaping and compression

[Offerings(De)]

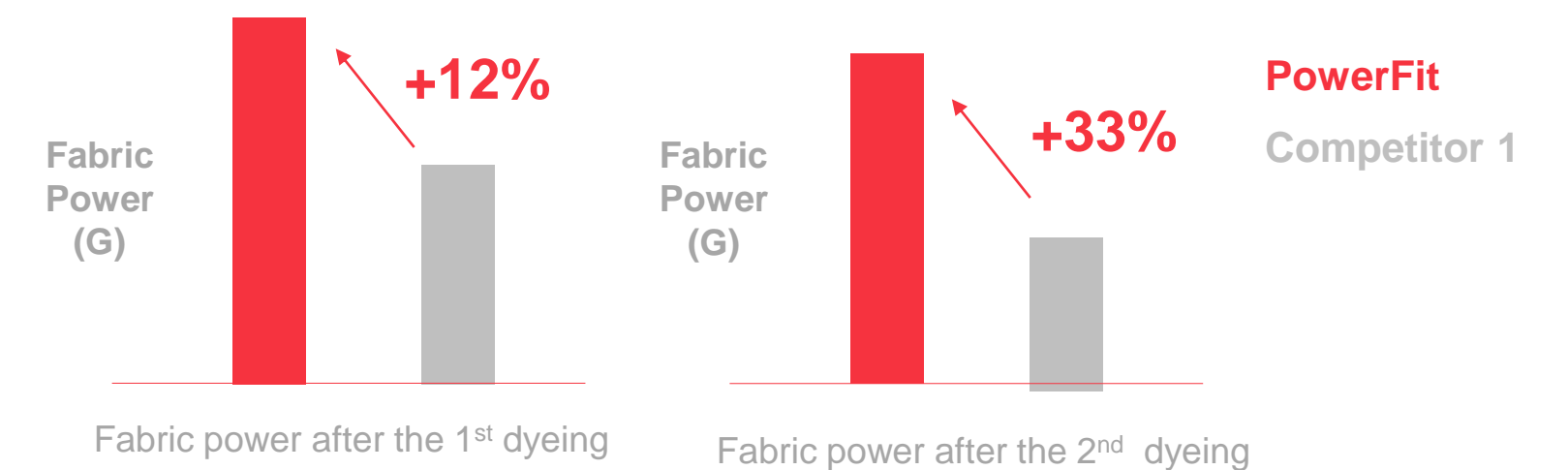
20, 30, 40, 55, 70, 140, 280,
420, 560, 840, 1120, 1680



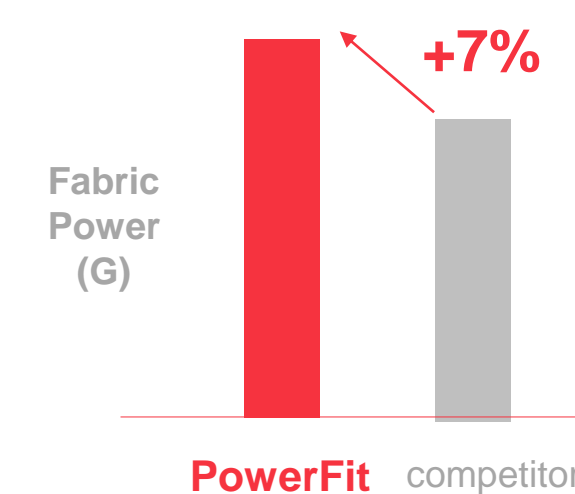
[Higher Fabric Power]

The fabric with creora Power Fit® has higher fabric power than competitor

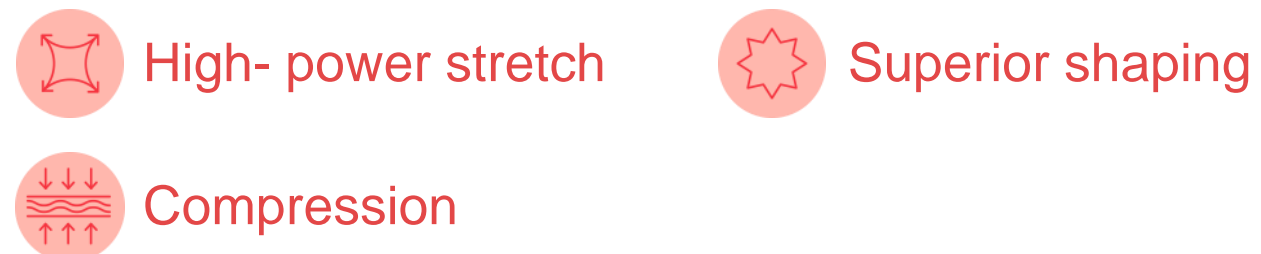
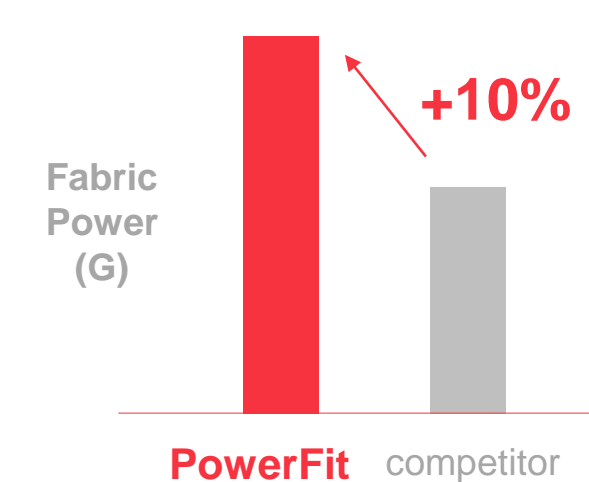
Based on polyester



Based on nylon



Based on cotton



creora® Acti Fit

HYOSUNG

Lasting fit for extreme sports



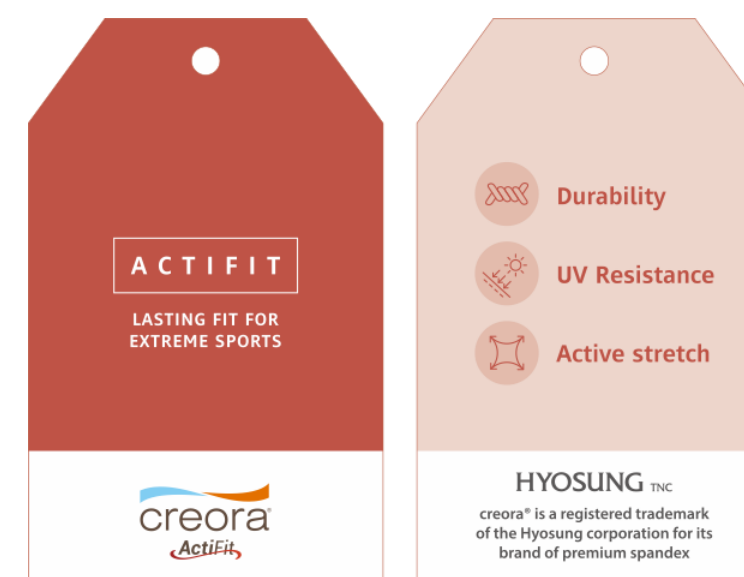
Durable spandex for external circumstance

creora® ActiFit is an enhanced version of creora® PowerFit with higher durability for active sports.

- Longer lasting fit for extreme sports
- Excellent UV, chlorine and chemical resistance
- Superior shaping and compression

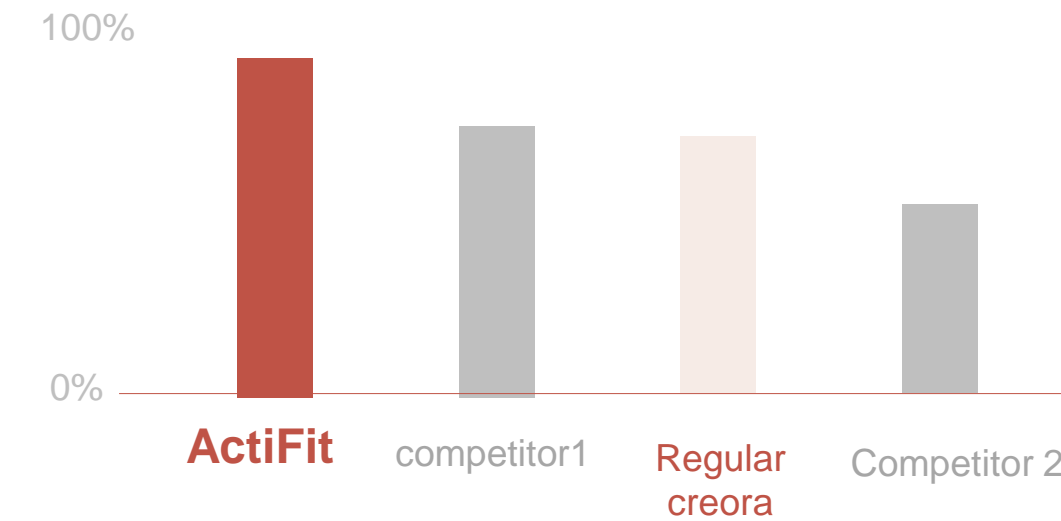
[Offerings(De)]

20, 30, 40, etc



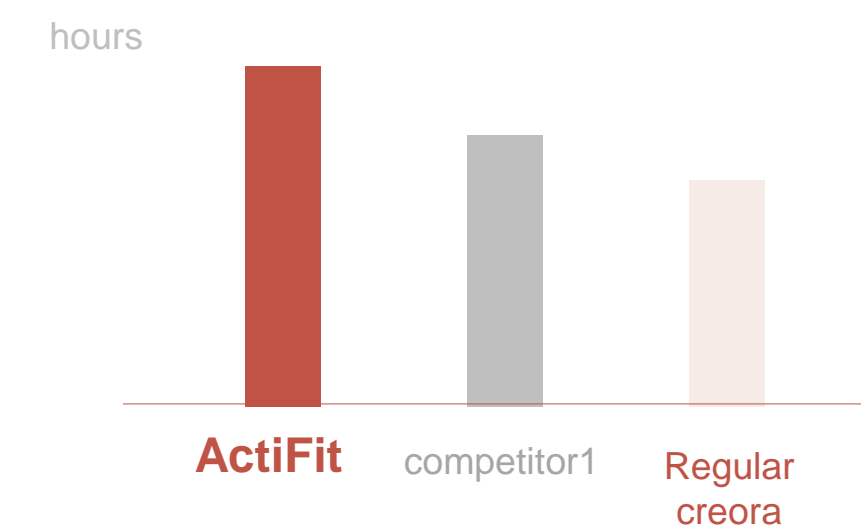
[UV Resistance]

Power retention % after 72hours of UV exposure



[Chlorine resistance]

Time until power retention at 70%



- Durability
- UV resistance
- Compression

Stay fresh all day long



Anti-odor spandex

creora® Fresh is an odor-resistant spandex with high power stretch. It delivers higher and longer deodorizing effect by chemically bonding to Isovaleric Acid, Acetic acid, Ammonia and Nonenal.

- Odor resistance with freshness
- Active stretch
- Stay fresh

[Offerings(De)]

20, 30, 40, etc

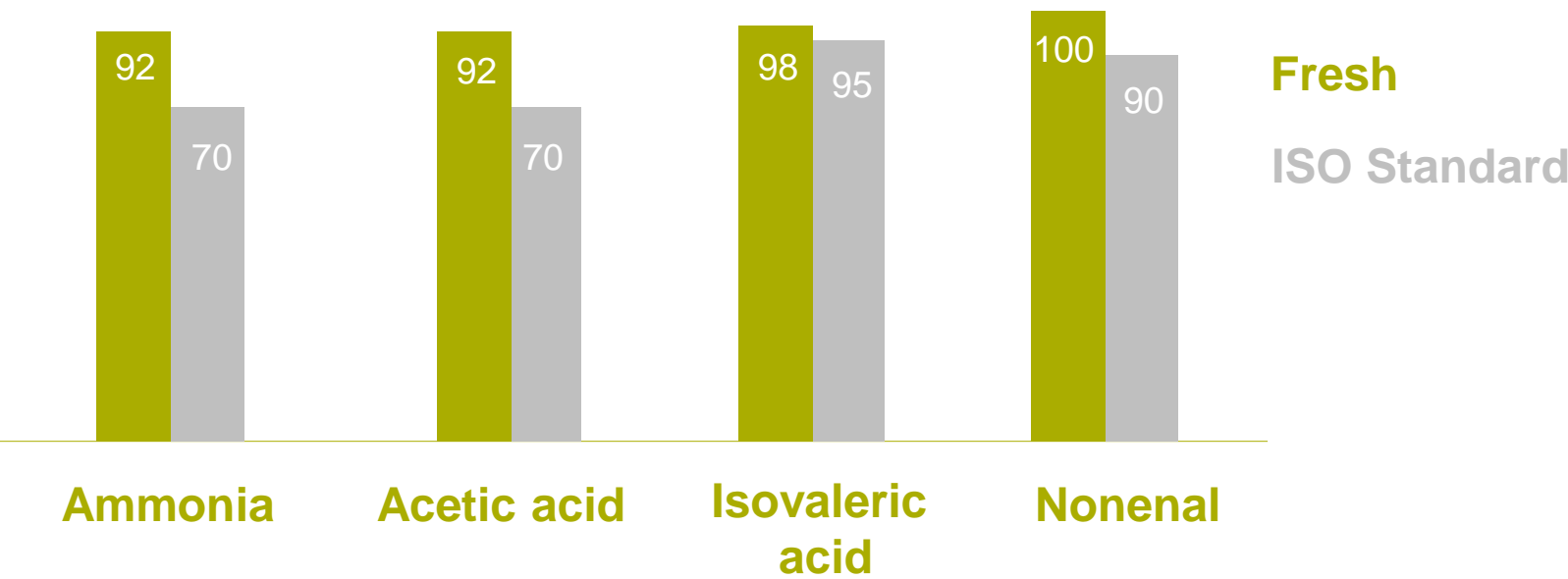


[Deodorization, Elimination Rate(%)]

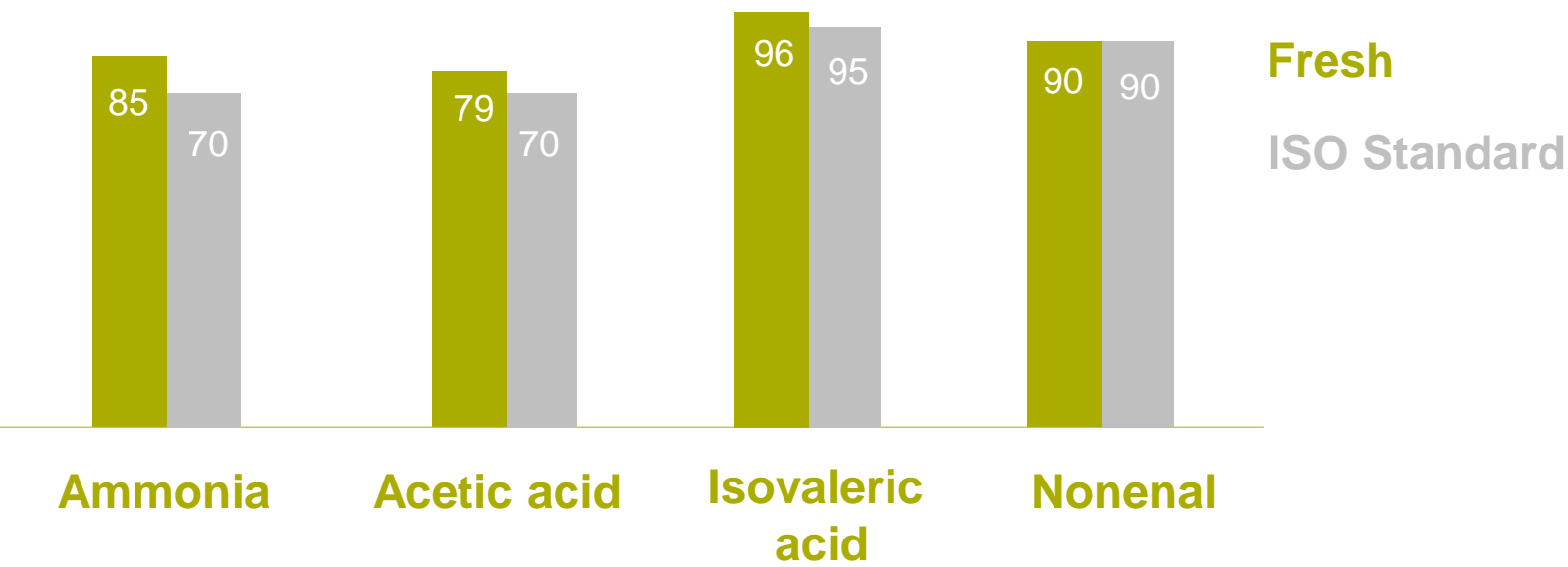
If the results are over ISO standards, it has deodorization function

Fabric sample: C/K single Jersey
(we recommend over 10%~15% of fresh spandex content)

Nylon



Polyester



- Odor resistant
- Active stretch
- Stay fresh

Extraordinary color



Dyeable spandex

creora® Color+ is a dyeable spandex that has excellent properties with excellent dyeability and color fastness in blends with nylon or natural fibers to provide all-over rich color without grin-through.

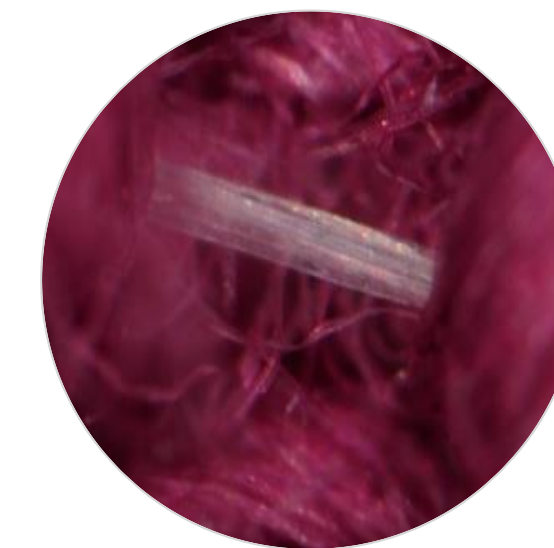
- Rich colors without grin-through
- Reactive dyeable for natural fibers
- Acid dyeable for nylon

[Offerings(De)]

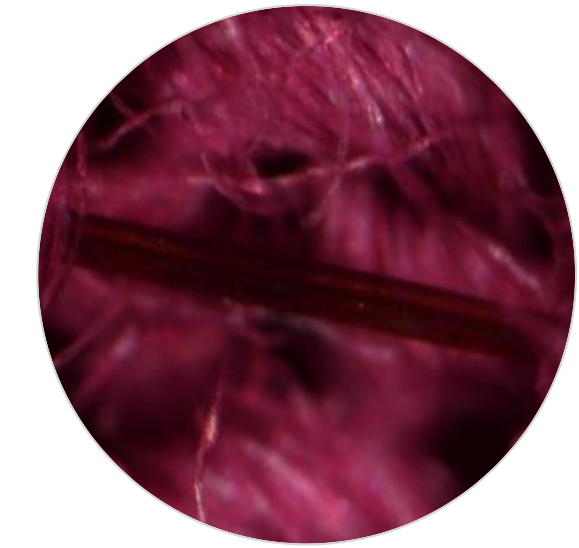
- H-550
(Low heat settable & Nylon dyeable)
12, 15, 20, 30, 40, 70, 140, 210, 280
- H-350A
(Higher power & Nylon dyeable)
20, 30, 40, 70, 140
- H-350C
(Natural dyeable with cotton, rayon and modal)
20, 30, 40, 70



[Deeper, darker, richer color shades with nylon – H350A, H550]



Regular Spandex



creora® Color+

[Improved visual uniformity & reduced grin-through with natural fiber – H350C]



Regular

creora® Color+



Regular

creora® Color+



creora® Black

HYOSUNG

Absolute black with power



Black spandex

creora® Black is black dope dyed spandex with high power. Providing blacker blacks without grin-through and various design effect-stripes and tone on tone. Also with creora® Black Spandex, you can achieve water-saving.

- Blacker black without grin-through
- Eco friendly
- Active stretch

[Offerings(De)]

20, 30, 40, 55, 70, 140, 420,
560, 840, 1120, 1680



[Prevent Grin- through]



CREORA® black

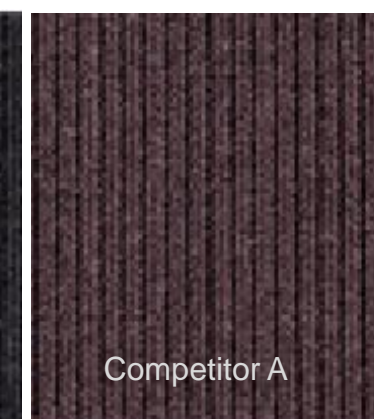


CREORA® POWER FIT

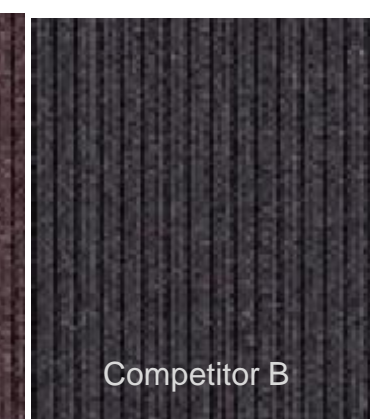
“ Truly black color provides deeper, darker color shades”



creora® Black



Competitor A

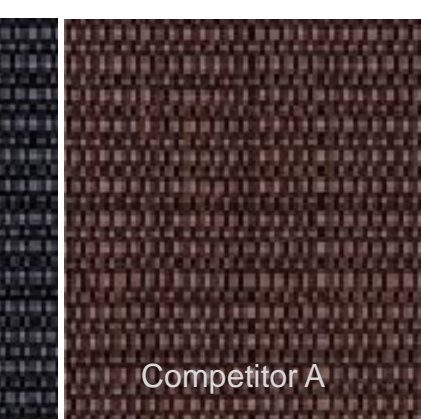


Competitor B

Fabric



creora® Black



Competitor A



Competitor B

Spandex only

[Color depth %]



Blacker black



Eco-friendly



Active stretch

Longer lasting fit for swimwear



Super chlorine resistant spandex

creora® highclo is chlorine resistant spandex with high-power. It offers durability even at higher temperatures, maintaining power and compression.

- Longer lasting fit
- Durability
- Active stretch

[Offerings(De)]

20, 30, 40, 55, 70

HIGHCLO

LONGER LASTING FIT FOR SWIMWEAR

creora highclo

Chlorine Resistant

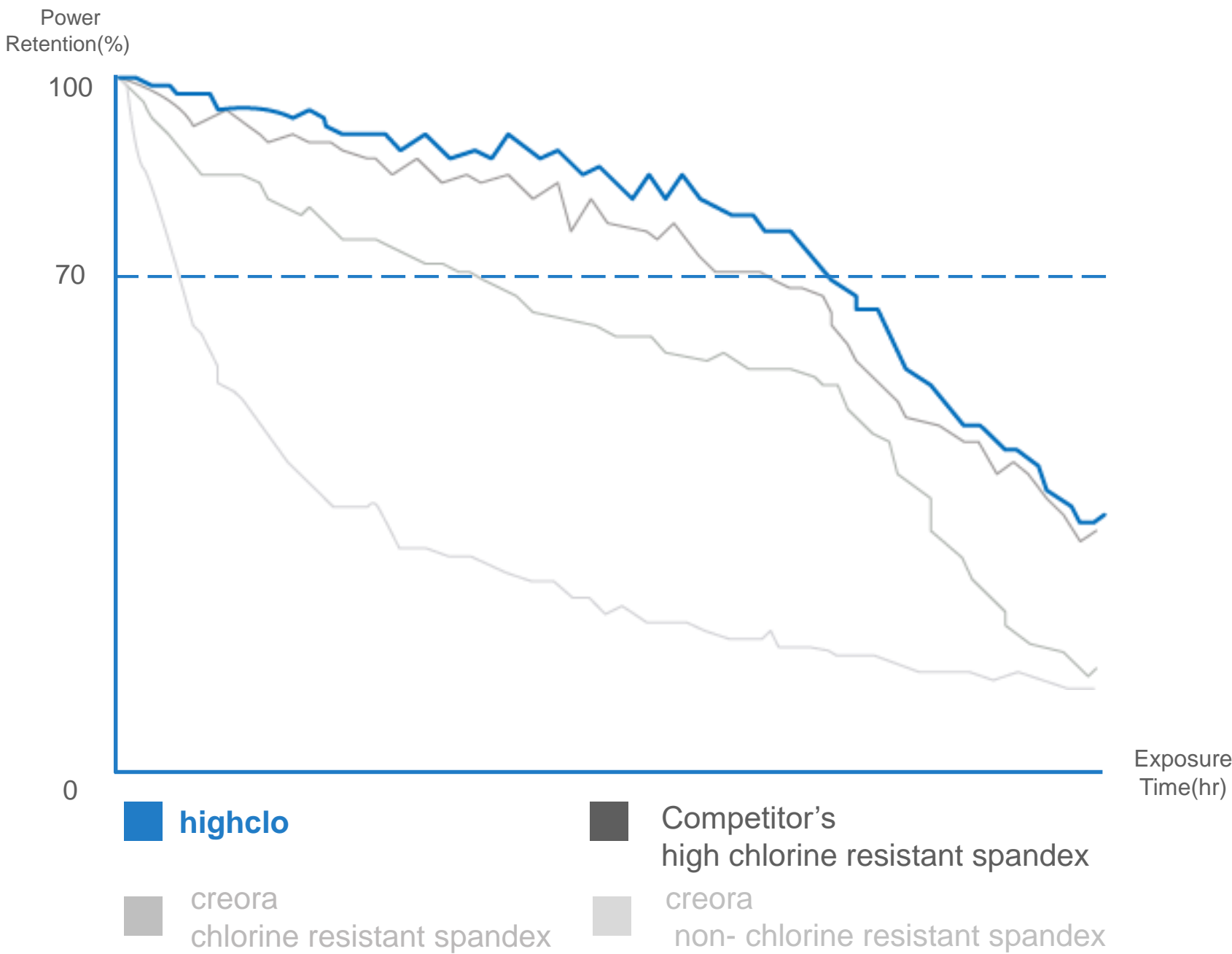
Durability

Lasting Fit

HYOSUNG INC

creora® is a registered trademark of the Hyosung corporation for its brand of premium spandex

[Chlorine resistance of creora® highclo™]



creora® highclo™



non-chlorine resistant spandex/ elastane

- Chlorine resistant

Durability
- Lasting fit

Dynamic fabric test in 3.5 ppm chlorine

creora® EasyFlex

HYOSUNG

Comfort and support that moves with you



Soft stretch spandex for superior comfort and recovery

creora® EasyFlex provides higher elongation with lower hysteresis, you can achieve personalized fit within a size and allows garments to stay in place and move with the wearer.

- Premium comfort, flexibility, softness, stability and recovery
- Ease of high extension

[Offerings(De)]

120, 180, 260, 360, 720



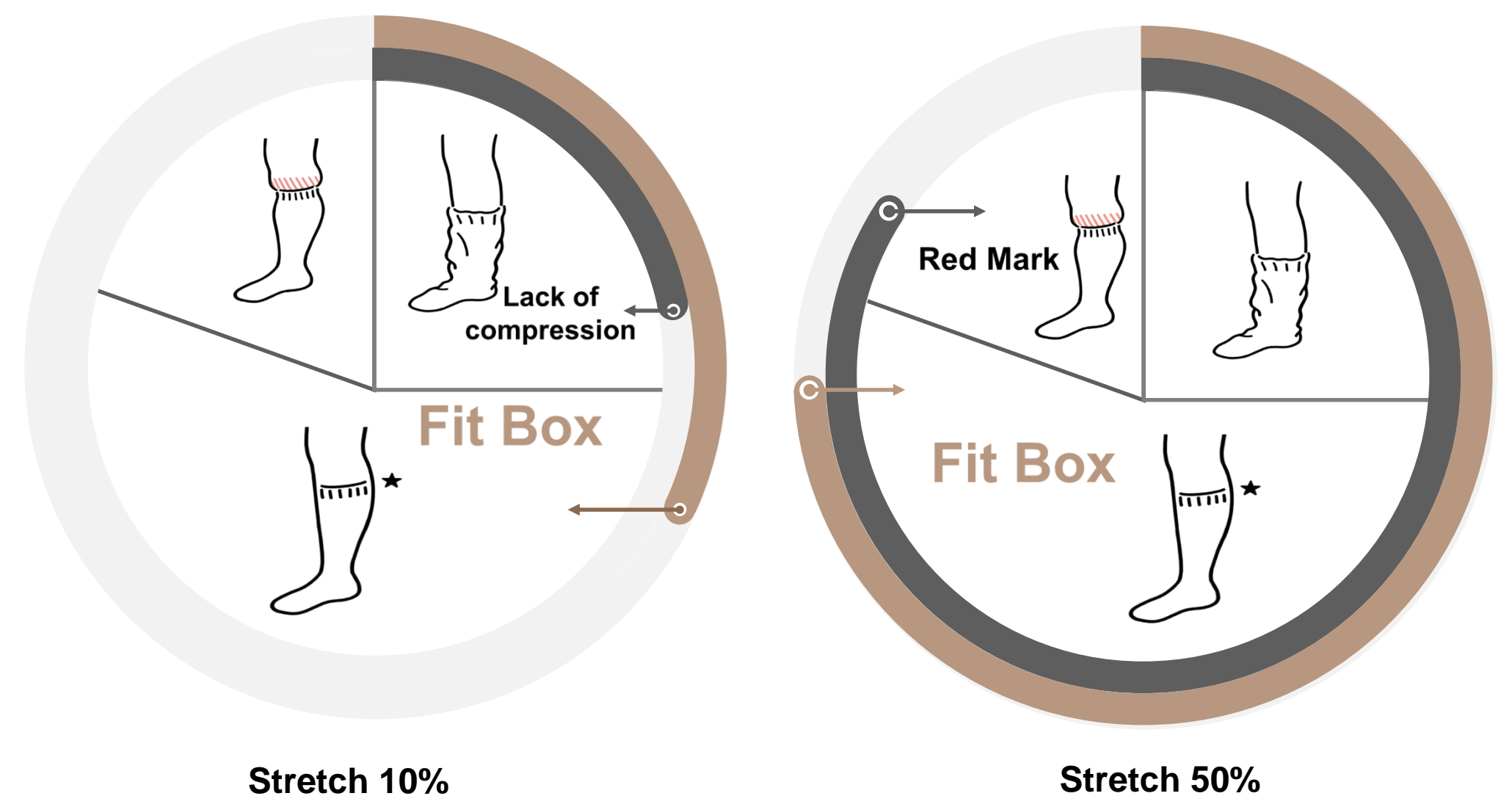
[High elongation with low power]

creora® EasyFlex has superior stretch with lower power. Compared to regular spandex, creora® EasyFlex can provide the same level of stretch with less effort for products such as socks, medical hosiery, narrow band etc.

[Elongation-Power test result]

*Test sample : Socks * The force when pulling sock tops

■ creora® EasyFlex ■ Regular spandex



Superior comfort



Excellent resilience

creora® SHIELD

HYOSUNG

Long-lasting protection for enhanced wellbeing



Anti-microbial spandex

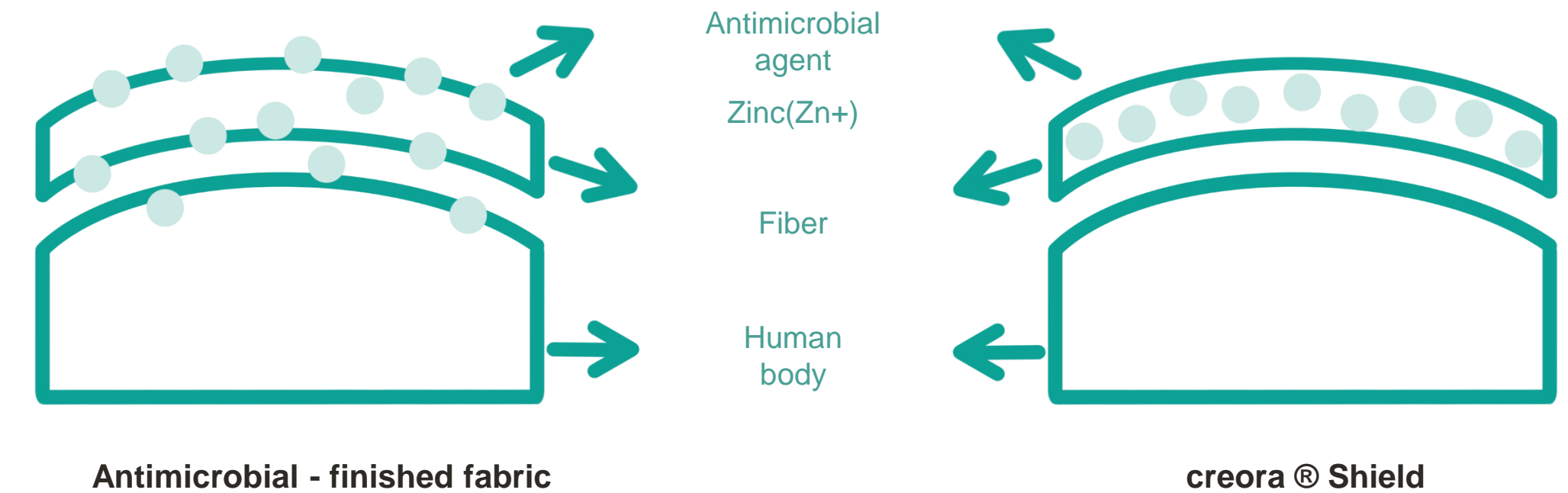
Long-lasting protection for enhanced wellbeing with creora® SHIELD. creora® SHIELD with antimicrobial additive technology does not wash off or wear away. It inhibits the bacterial growth so do not cause any allergy or skin problems. Plus, it helps reduce odor-causing microbes, helping to keep the product fresher.

[Offerings(De)]

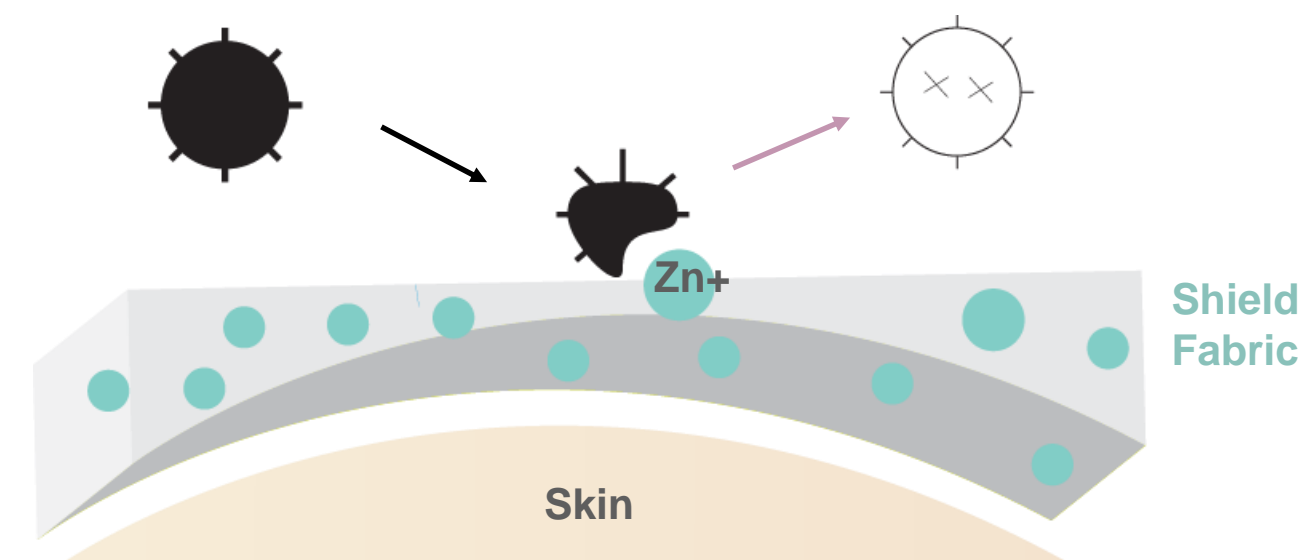
20,30,40,55,70,140,280



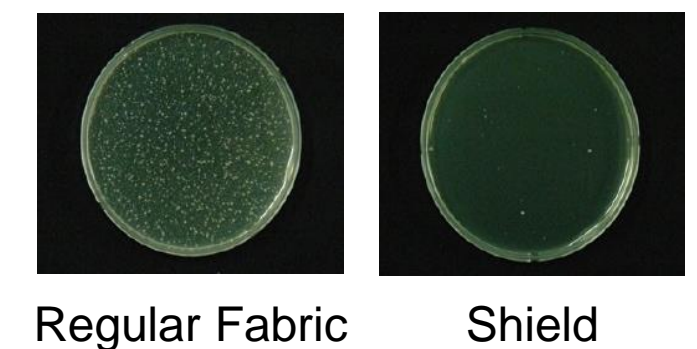
[Anti-Microbial Function]



[Mechanism]



[Functional Test]



- Superior fit
- Fresh longer
- Anti-microbial action

For denim you want to live in



Special spandex for denim

Performance is the secret and all-day comfort is the key.
Jeans made with creora 3D Max spandex offer a natural look and feel, and deliver lasting stretch and exceptional recovery – for denim you want to live
Thanks to optimum stretch & recovery performance of 3D Max, it's available to realize recyclable ultra-stretch denim fabric with only 2% of spandex content.

- Higher Elasticity
- Improved Growth Level
- Advanced Puckering Result
- Sustainable ultra-stretch denim

[Offerings(De)]

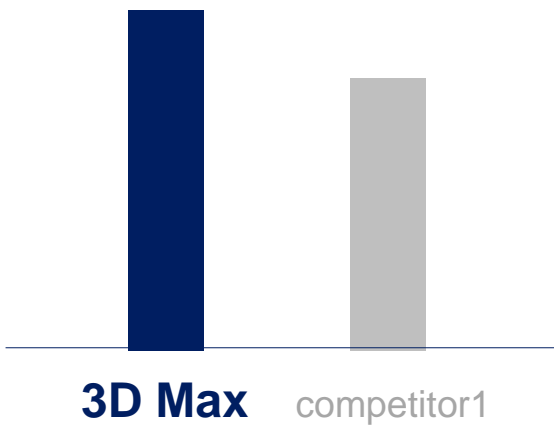
50,80



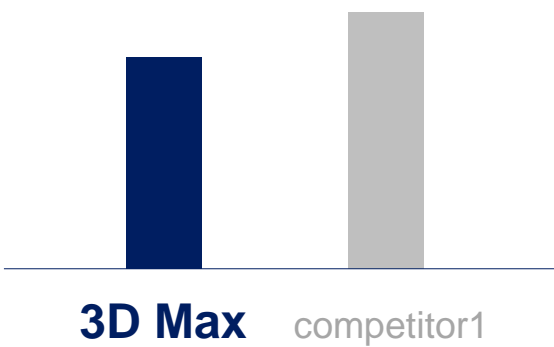
[Improved Fabric Properties]

Cotton covered yarns with a specially engineered creora elastane core are combined in a proprietary process to deliver the ultimate in stretch, yet with low growth

Improved Elasticity



Better growth level at high elasticity



- Ultra stretch
- All-day comfort

Lasting fit

Exceptional softness and whiteness



Low heat settable spandex

creora® eco-soft is low heat settable spandex allowing manufactures to reduce energy or achieve higher productivity.

- Low-heat settable
 - soft touch and drape
 - excellent dimensional stability
- Lower heat consumption
 - cost saving or higher productivity

[Offerings(De)]

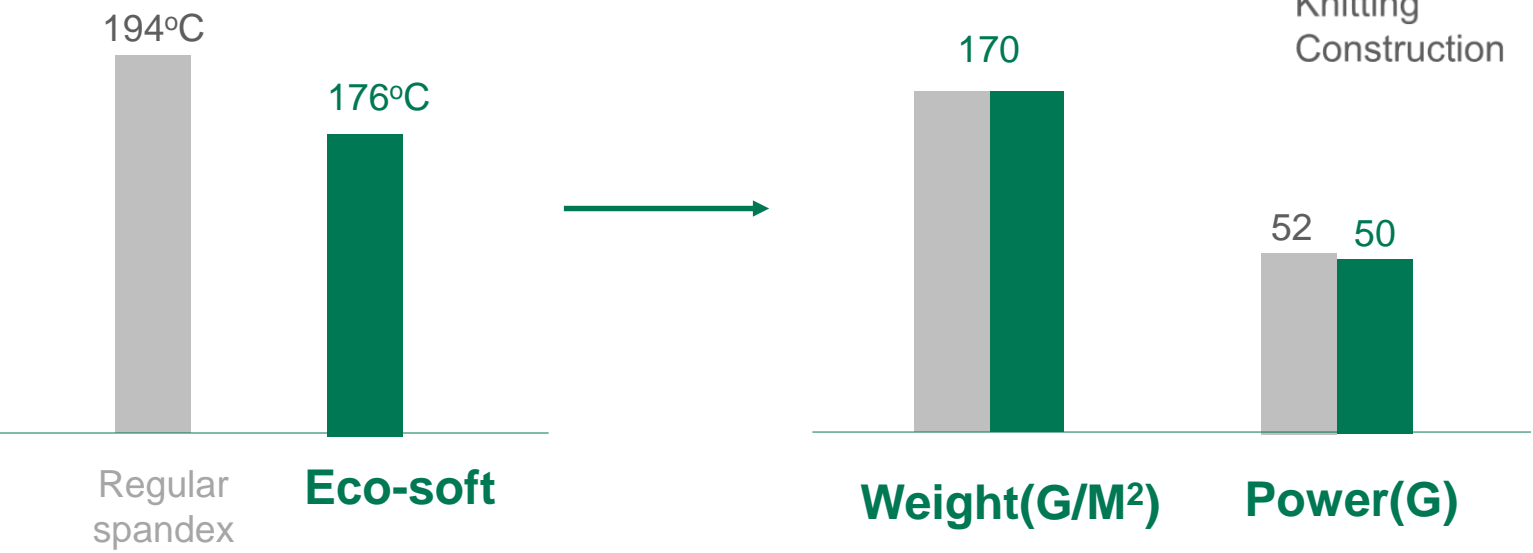
20, 30, 40, 55, 70, 140, 280



[Low heat Settable]

creora ® eco-soft can reduce setting temp. by 15~20℃, and still maintain the weight & power

Setting temperature



Item : Cotton CM 40's + eco-soft 20D
Knitting Construction : 32" x 2.8G x 96F

