

Sateri

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Sateri
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a **Sateri** brand

Efficient | Premium | Easy Spinning





Customised for different yarn spinning processes, Sateri has developed a series of EcoCosy BV[®] fibres

The excellent quality of EcoCosy BV[®] fibre series is achieved from the seamless integration of industrial value chain. From the carefully cultivated tree species to the 100% dissolving wood pulp, together with European technology from Finland and produced in modern facilities, Sateri provides the superior products, managed by way of a traceable supply chain, to control the quality from the upstream raw material to yarn production.

In addition, Sateri collaborates with equipment and yarn experts to develop solutions for optimisation of viscose fibre by for the different spinning technologies. Through improved spinning efficiency, quality and machine utilisation, EcoCosy BV[®] fibre series helps maximize potential for downstream spinning applications.

EcoCosy[®] BV fibre series hereinafter referred to as BVO, BVR, BVM, BVF

EcoCosy [®] 优可丝 [®] BVO Open-end spinning	
Length (mm)	32-38
Fineness (DPF)	1.2
Tenacity (cN/dtex)	≥2.50
Yarn counts	≤40S

EcoCosy [®] 优可丝 [®] BVR Ring/Siro-compact spinning	
Length (mm)	38
Fineness (DPF)	1.2
Tenacity (cN/dtex)	≥2.55
Yarn counts	≤60S

EcoCosy [®] 优可丝 [®] BVM Vortex spinning	
Length (mm)	38
Fineness (DPF)	1.2
Tenacity (cN/dtex)	≥2.55
Yarn counts	≤60S

EcoCosy [®] 优可丝 [®] BVF Fine-count yarn	
Length (mm)	38-40
Fineness (DPF)	0.8/0.9/1.0
Tenacity (cN/dtex)	≥2.65
Yarn counts	≥60S



- Efficient -

- Less cuts & breaks
- High spinning speed
- High productivity



- Premium -

- High tenacity
- Better CV value
- Less yarn defects
- Less hairiness



- Easy Spinning -

- Excellent spinability
- Longer usage time of consumable parts
- Low labor intensity

EcoCosy BV® can blend with cotton, polyester, acrylic, linen, wool, etc to achieve different fabric style, and broaden downstream applications.

High dyeing uniformity and consistency	Less hairiness and resistant to pilling	Stability against deformation	As soft and breathable as cotton, as smooth as silk	Clear appearance and good printing effects	High bursting strength & abrasion resistance; Comfortable & durable

Sustainably managed plantations

100% internationally- certified dissolving pulp

World-leading fibre production management and control

- Best practices for sustainable production with level-3 (top-level) Swiss STeP by OEKO-TEX® certification.
- Strict compliance with ZDHC MMCF Wastewater guidelines to minimize impact on the environment.
- Higg Index FEM 3.0 score of 90% in average, demonstrating sustainable environmental management in fibre manufacturing step.
- Sateri's 3 fiber mills all have passed the EU-BAT(EU best available techniques) verification, clean & close loop production, minimizing the impact of production on the environment.
- Swiss STANDARD 100 by OEKO-TEX® certified, eco-environmental protection, free from harmful substances, reaching the safety level of infants.
- OEKO-TEX® MADE IN GREEN label provides the assurance that product is manufactured in an environmentally-friendly, socially responsible and safe manner.

Bio-based products

100% bio-based products certified by USDA (United States Department of Agriculture), free of petroleum derivatives.

Fully biodegradable

- Achieved the compostable degradable "Seedling" certificate, the products can be biodegraded quickly in 90 days without harmful residues.
- Obtained the American BPI (Biodegradable Products Institute) industrial compostable label certificate.

Safe and reliable products

Passed the REACH (Registration, Evaluation, Authorization and Restriction of Chemicals) test, and Hohenstein biological safety certification, the products are safe, reliable and free of cytotoxicity and sensitization.





BVO

Open-end spinning

BVO fibre is tailor made for open-end yarn. BVO allows OE spinning machine running at the highest possible speed under different production environment.

Compared with conventional viscose fibres, the spinnability and efficiency of BVO fibre are improved largely with lower cuts and breaks.

With higher yarn strength, better CV value, and lower defects than conventional viscose fibres, yarn made of BVO fibre represents the superior quality of OE spinning yarn, which leads to clear fabric appearance and smooth hand feeling.

- Smooth Hand Feeling
- Comfortable & Durable
- High Dyeing Uniformity
- Clear Appearance & Good Printing Effect

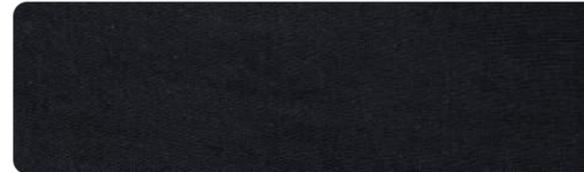


Better Dyeing Stability and Consistency

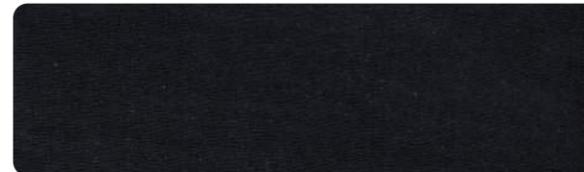
100% highly purified dissolving wood pulp brings stable quality of fibre, which will secure fabric dyeing stability and consistency.

Strictly Control each of fibre parameter to ensure stable quality of yarn. With improved yarn evenness and feather performance, fabric made of BVO fibre will have less defects with more stable quality, which can bring less risk to the dyeing part.

Batch 1



Batch 2



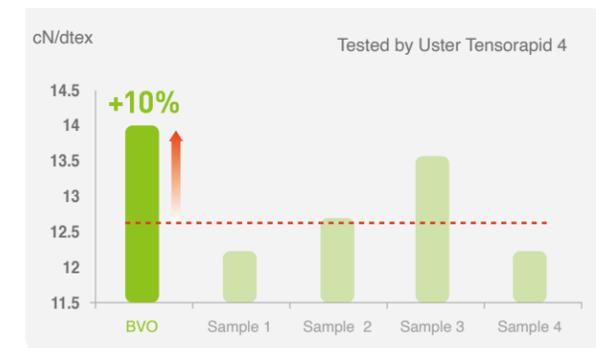
BVO fibre has stable dye up-take and fixation rate among different batches. Take batch 2 as benchmark, the color difference with batch 1 reaches to level 5 (the optimal level).

Tested by Colordata 600 tester

Better Yarn Strength

BVO fibre is applicable at high rotor speeds. Running at higher spinning speed, yarn made of BVO fibre still keeps higher yarn strength, leading to sharply decrease yarn cuts and fabric breaks, meanwhile, improve fabric bursting strength and efficiency.

Better yarn quality offers more choices for fabric dyeing and finishing style.

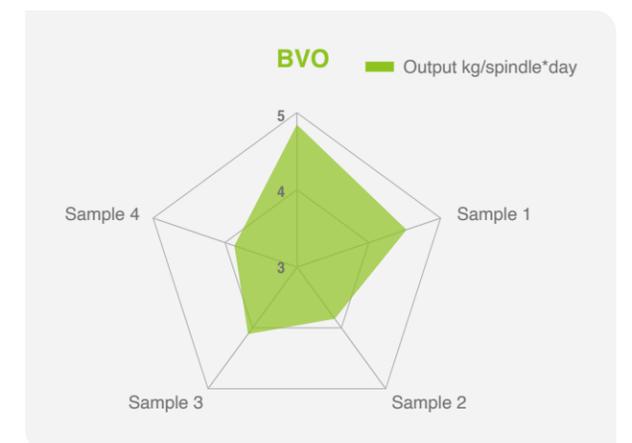


Higher Spinning Efficiency

Running at higher spinning speed, yarn made of BVO fibre has 70% lower cuts, 16% higher output than conventional viscose fibre.

Lower yarn cuts ensure better yarn quality, which also reduce the workload of workers.

Under Rieter R40 (420 spindles)



The above data is based on results done by Linz (Nanjing) under Rieter R40 (420 spindles) with BVO OE 30S 100% viscose yarn. Sample 1, Sample 2, Sample 3 and Sample 4 refer to conventional viscose fibre yarns.



BVR

Ring/siro-compact Yarn

BVR fibre is tailor made for ring/siro-compact yarn, which fits for all types of spinning process, especially for yarns at high-speed spinning.

Compared with conventional viscose fibres, the spinnability and efficiency of BVR fibre are improved largely with lower cuts and breaks.

In addition, yarn made of BVR fibre has lower defects and better wear resistance, representing the superior quality of ring/siro-compact process, which can give more potential to downstream application.



- Clear Appearance
- Smooth Hand Feeling
- Stability against Deformation
- High Efficiency
- Bright Color Depth
- High Dyeing Uniformity

Better Yarn Strength

Running at higher spinning speed, yarn made of BVR fibre has large advantage in yarn strength, which will improve fabric bursting strength and wear resistance.

Better yarn quality offers more choices for fabric dyeing and finishing.



Tested by Uster Tensorapid 4 under machine JWF1562EJM

Less Hairiness & Resistance to Pilling

At higher spinning speed, BVR fibre achieves yarn with less hairiness and fabric with better resistance to pilling, bringing comfortable wearing experience.



Tested under machine JWF1562EJM

Low defects, Better CV value

100% highly purified dissolving wood pulp brings stable quality fibre.

Strictly control each of fibre parameter to ensure stable yarn quality. At higher spinning speed, the quality of BVR yarn remains with lower defects. Through improving the CV value, reducing yarn defects, the fabric achieves smooth surface, better shade uniformity and clearer printing effect.

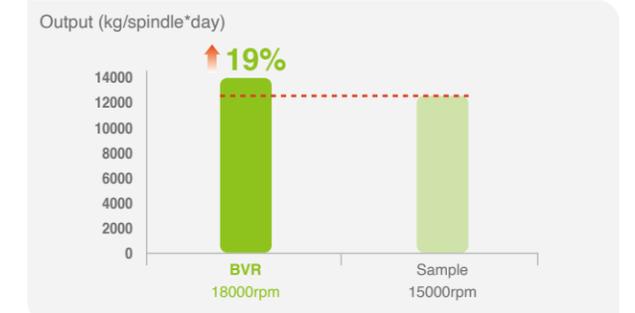
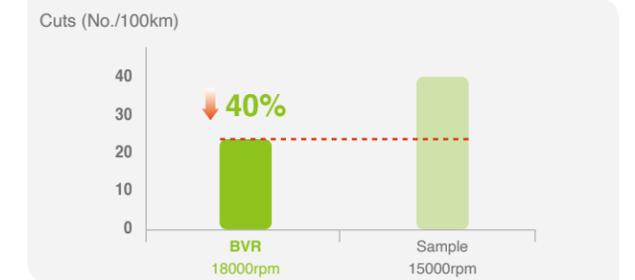
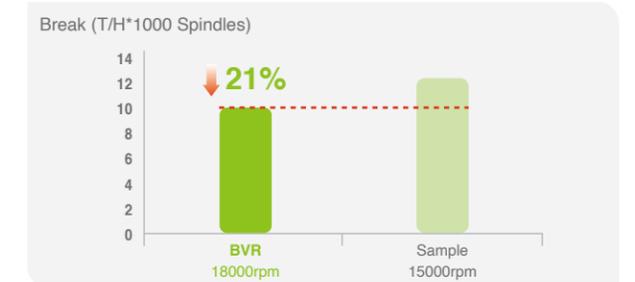
Yarn made of BVR fibre ensures clearer fabric texture with lower defects, making finished products more comfortable and excellent in quality.



Tested under machine JWF1562EJM

Higher Spinning Efficiency

Running at higher spinning speed, yarn made of BVR fibre has lower cuts and breaks, leading to higher spinning efficiency and stable production. High speed can not only improve the output, but also greatly reduce the energy and labor consumption, making products more competitive.



Tested under machine JWF1562EJM

Enhance fabric quality

BVR fibre achieves to improve fabric quality with soft & smooth surface and clear texture. The color fastness reaches level 4-5 with improved stability against deformation.

Test Standard		BVR	
Dimensional Stability to Washing	ISO6330-2012	Length	-1.1%
		Width	-3.4%
Color Fastness to Washing	ISO 105 C06 A2S-2010		4-5
Color Fastness to Rubbing	ISO 12945-2:2000		3-4

Fabric spec: 95% BVR Ne 40S/1 +5% Spandex

The above data is based on results done by Linz (Nanjing) under JWF1562EJM with Muruta Process Coner. Yarn spec: BVR SC 40S/1. "Sample" refers to conventional viscose yarn 40S/1.



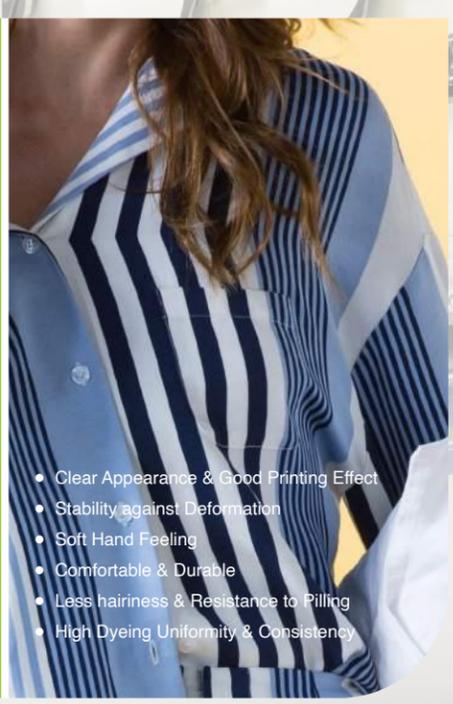
BVM

Vortex spinning

BVM fibre is tailor made for vortex yarn spinning production. BVM allows vortex machine running at the highest possible speed under different spinning environment.

Compared with conventional viscose fibres, the spinnability and efficiency of BVM fibre are improved largely with lower cuts and breaks.

With higher yarn strength, better CV value, lower defects and better abrasive resistance than conventional viscose fibres, yarn made of BVM fibre represents the superior quality of vortex yarn, which brings more potential to downstream application development.



- Clear Appearance & Good Printing Effect
- Stability against Deformation
- Soft Hand Feeling
- Comfortable & Durable
- Less hairiness & Resistance to Pilling
- High Dyeing Uniformity & Consistency

Better Shade Uniformity and Consistency

100% highly purified dissolving wood pulp brings stable quality fibre, which will secure fabric shade uniformity and consistency.

Strictly control each of fibre parameter to ensure stable quality yarn. With improved yarn evenness and hairiness performance, fabric made of BVM will have less defects with more stable quality, which can bring less risk to the dyeing part.



BVM fibre has stable dye up-take and fixation rate among different batches. Take batch 3 as benchmark, the color difference with batch 1 and 2 reaches to level 5 (the optimal level).

Tested by Colordata 600 tester

Good Yarn Strength

Running at the same spinning speed, yarn made of BVM fibre has large advantage in yarn strength, lower yarn cuts and breaks, which will improve fabric bursting strength and efficiency.

Better yarn quality offers more choice for fabric dyeing and finishing.



Higher Knitting and Weaving Efficiency

Fabric made of BVM fibre has lower breaks.

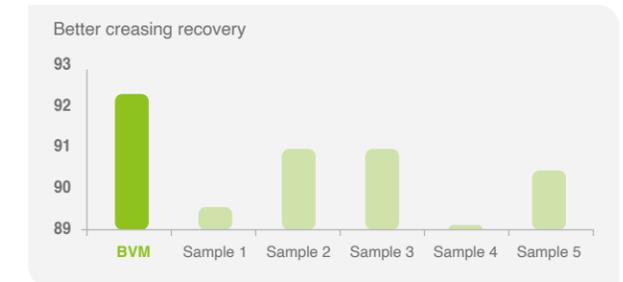
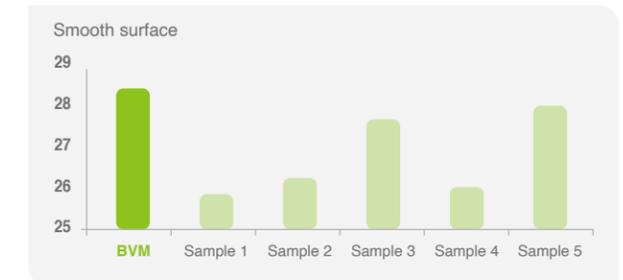
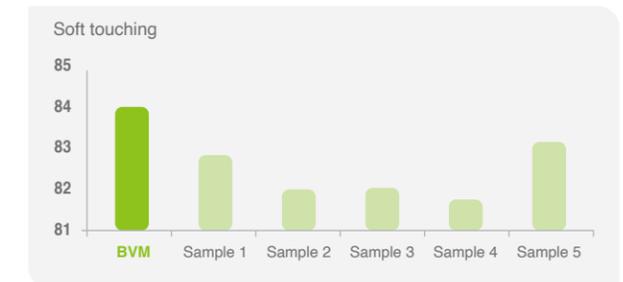
Lower breaks can bring clear fabric appearance, which is also a critical benefit for machine at high speed to improve equipment utilization rate.



Soft Fabric Hand Feeling

Fabric made of BVM fibre has soft touching, smooth surface, better creasing recovery.

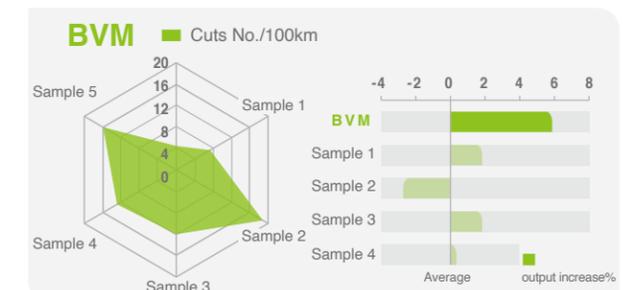
Garment made of BVM fibre features with clear appearance, which is better for dyeing, printing and finishing.



Higher Spinning Efficiency

Running at the same spinning speed, yarn made of BVM fibre has 50% lower cuts, 5.5% higher output than conventional viscose fibres.

Lower yarn cuts ensure better yarn quality, which also reduce the workload of workers.



The above data is based on testing results done by Linz (Nanjing) under Murate 870 (without poyaster) with sample of BVM vortex 30S/1viscose yarn. Sample 1, Sample 2, Sample 3, Sample 4 and Sample 5 refer to conventional viscose fibre yarns.



BVF

Fine-count Yarn

Featured by higher tenacity, BVF fibre is tailor made for fine-count yarn, which fits for all types of spinning process, especially for yarns at high-speed and fine-count. Compared with conventional viscose fibres, the spinnability and efficiency of BVF fibre are improved largely with lower cuts and breaks.

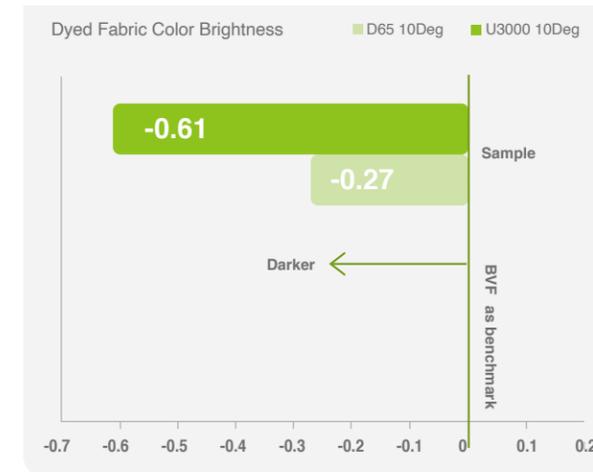
In addition, with finer denier, BVF fibre can achieve higher yarn count. Fabric made of BVF fibre has soft touching and smooth surface, representing the superior quality of fine count yarn and giving more potential to downstream application.



- High Color Brightness & Uniformity
- Stability against Deformation
- Soft Hand Feeling
- Comfortable & Durable
- Less hairiness & Resistance to Pilling
- Clear Appearance & Good Printing Effect

High Color Brightness & Uniformity

100% highly purified dissolving wood pulp brings stable quality of fibre, which will secure fabric color brightness & uniformity.

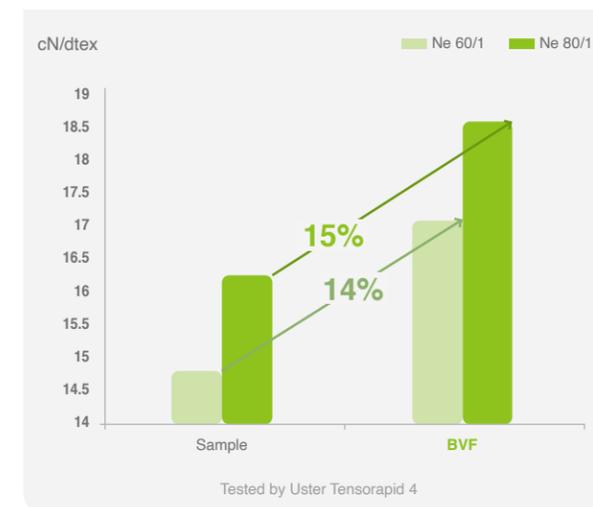


BVF Greige fabric has 3% higher whiteness than conventional viscose fabric. Take BVF color brightness as benchmark, by tests under D65 light and U3000 shop light, the color brightness of conventional viscose fabric is darker.

Better Yarn Strength

Running at the same spinning process, yarn made of BVF fibre has large advantage in yarn strength, which will improve fabric bursting strength and knitting/weaving efficiency.

Better yarn quality offers more choices for fabric dyeing and finishing.



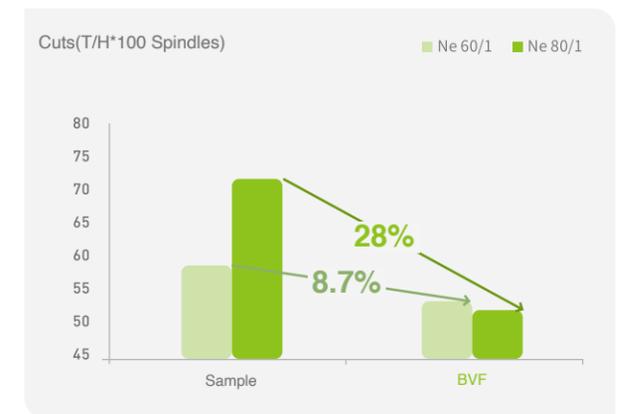
Yarn made of BVF fibre has higher strength than conventional viscose fibre.

High Spinning Efficiency

Running at the same spinning process, yarn made of BVF fibre has lower cuts and breaks, which effectively reduce the workload of workers and improve the spinning efficiency.



Spinning machine: JWF-1562E JM

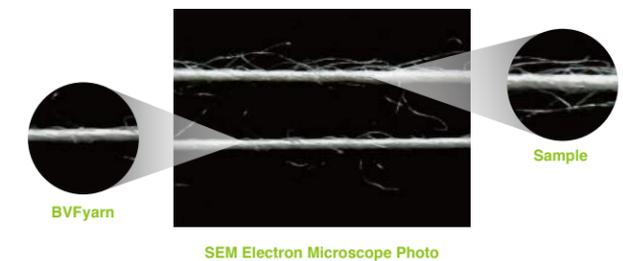


Spinning machine: Murata Process Coner

Less Hairiness & Resistance to Pilling

BVF fibre achieves yarn with less hairiness and fabric with better resistance to pilling.

BVF fibre also fits for blended yarn to improve the hairiness and anti-pilling performance.

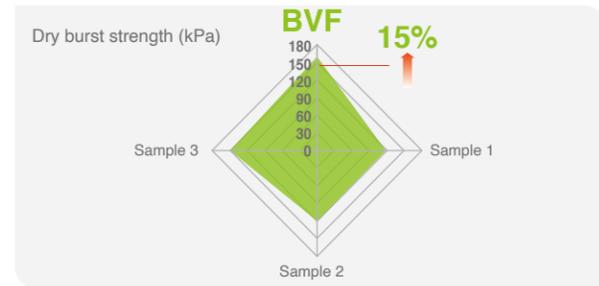


The above data is based on testing results done by Linz (Nanjing) under JWF1562 with Murata Process Coner. Yarn spec: BVF SC 60S/1 and 80/1; Fabric spec: 94% BVF Ne 60S/1+6% Spandex | "Sample" refers to conventional viscose fibre yarn.

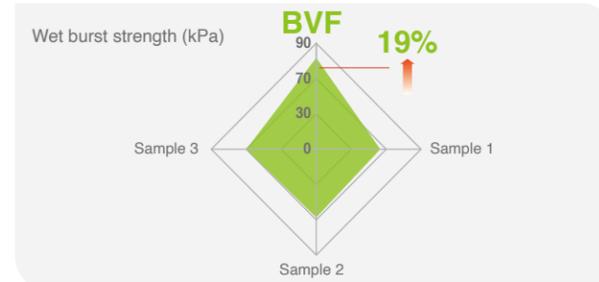
Enhance fabric quality

● Fabric quality performance

The bursting strength of BVF fabric is higher than conventional viscose fabric.



Under the same weaving conditions, the dry burst strength of BVF fabrics is 15% higher than the average.

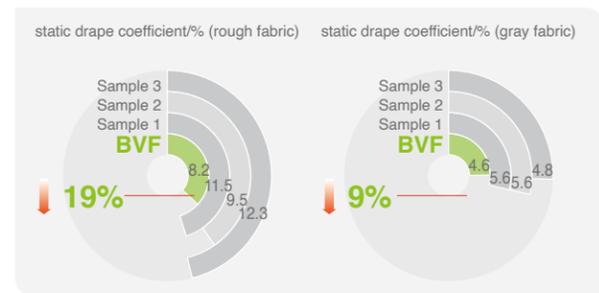


Under the same weaving conditions, the wet burst strength of the BVF fabric is 19% higher than the average.

Tested by SDLATLAS pneumatic burst strength tester.
 Test standard: GB / T 7742.2-2015 "Textiles and Fabric Bursting Performance Part 2: Test Method for Bursting Strength and Expansion".
 Test conditions: temperature 20°C; relative humidity 65%.

● Fabric quality performance

The drape performance of BVF fabric is better and the fabric is softer.

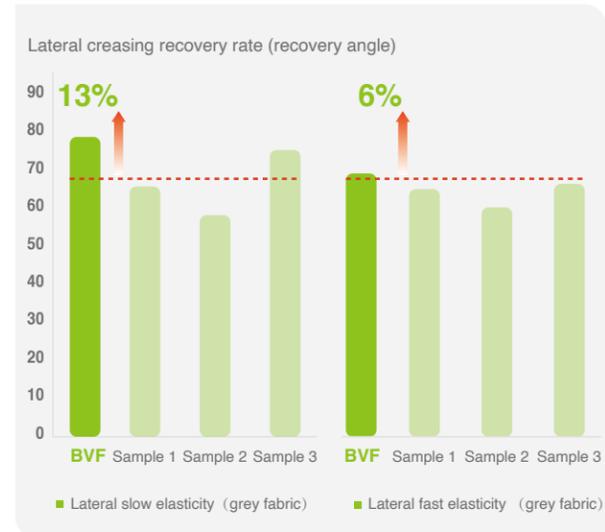


Under the same weaving conditions, the static drape coefficient of the BVF rough fabric is 19% lower than the average, and that of the gray fabric is 9% lower than the average.

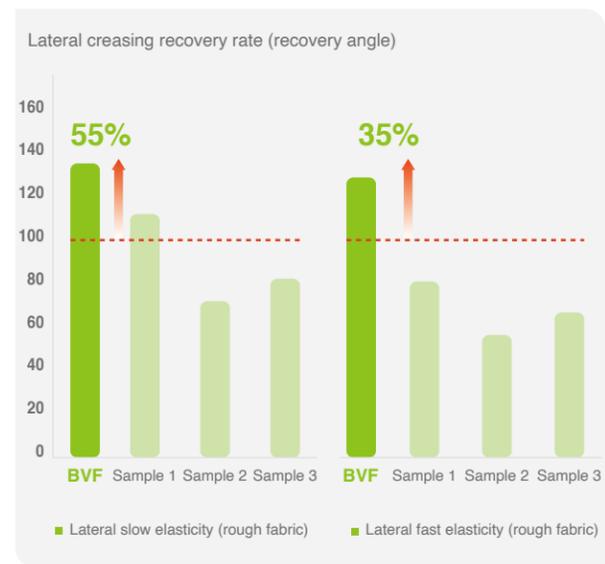
Tested by YGB1D-2 fabric dynamic drape style instrument. Test standard: GB/T 23329-2009 "Textile Determination of fabric drape". Test conditions: temperature 20°C, relative humidity 65%.

● Fabric quality performance

The creasing recovery performance of BVF fabric is better than conventional viscose fabric.



Under the same weaving conditions, BVF fibre has better creasing resistance. The recovery angle of slow elasticity is 13% higher than the average; the recovery angle of fast elasticity is 6% higher than the average.



The rough fabric performance is much better with BVF fibre. The recovery angle of slow elasticity is 35% higher than the average; the recovery angle of fast elasticity is 55% higher than the average.

Tested by YG541L digital fabric crease elasticity meter. Test standard: GB/T 3819-1997 "Determination of Recovery Angle Method for Textile Fabric Crease Recovery". Test conditions: temperature 20°C, relative humidity 65%.

TOUCHING LIVES
EVERYWHERE EVERY DAY