

Corporate Social Responsibility

Visaka Charitable Trust

Visaka Industries Limited, as a responsible corporate citizen has the view that corporates who benefit from society must give back something to society; that an organization with the power to affect human lives must use that power wisely, and not abuse it. With this as its central philosophy, the Visaka Charitable Trust set up in the year 2000, has donated over US\$ 5 million for social causes like education and clean drinking water to the poor in various parts of the country. It continues to do outstanding work, touching thousands of lives everyday.

Customer Speak

"This is the best yarn we have used during the last 150 years"
- one of our prestigious customers in Europe.

"We started using Visaka Yarn in 1992.
Year-after-year, we find its quality improving"
- one of our Belgian customers.

"Really a wonderful yarn."
- a customer in Australia.



MARKETING OFFICE

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www.visaka.in

Creating the PERFECT YARN



VISAKA INDUSTRIES LIMITED

**W^{THE}ONDER
YARN**



Our journey so far



Visaka Industries was established in 1985 and diversified into textiles in 1992. We have made rapid strides since our inception, manufacturing yarn using state-of-the-art Twin Air Jet Spinning technology from Murata, Japan, with 41 MTS machines equivalent to 1,00,000 spindles. Today, we produce over 12,000 metric tonnes of yarn per year and export about 4,000 tonnes to countries around the globe.

Our range of products include Melange Yarns, Grandrelle Yarns, High Twist Yarn and specialty yarns with different blend styles.

Visaka has earned recognition as the largest Unit in the world with MTS installation. We have achieved acclaim for the highest productivity and highest efficiencies, bench-marking quality and productivity standards of excellence for the world to follow.

Our adherence to stringent quality control earned us the prestigious ISO certification in 1995 and Star Export House status in 2008. Visaka has also earned acclaim for its consistency in quality, on-time delivery and friendly service in domestic as well as international markets.

Visaka's yarns are environmental friendly and are ÖEKO-TEX Certified from July 2008.



Our Plant

Superior quality through ultra modern technology

Our Spinning Mill is powered by state-of-the-art Twin Air-Jet technology from Murata, Japan, apart from German and Indian know-how.



Trütschler / Trumac Blow Room



Trütschler / Trumac Card

Schlafhorst Draw Frame



Muratec Twin Air Jet Spinner



Veejay Lakshmi Two-for-one Twisters



Online Quality Controls Intelligence Analyzer Super Spectron (ss)

Our Machinery

Our laboratory is equipped with the latest generation of USTER Quality control equipment including UT6 with built-in Artificial intelligence, Tensojet 4 & Classimat 5



Our Products

We make special blends to meet specific requirements of our customers.

Since 1992, our yarn has been used to manufacture a wide range of fabrics including shirting, suiting, fashion fabrics, upholstery and embroidery laces. Our products are appreciated by customers in Italy, Belgium, The U.K., U.S.A., Spain, Germany, Australia, Mexico and Turkey.

Visaka's Cotton-Touch Airjet Spun Polyester yarns

Advantages

Have successfully replaced cotton yarns for table napkins in U.K. and U.S.A.

Superior cotton-touch, premium matt look, easily washable/stain removable and pilling proof.

Have also replaced cotton yarns and twisted filament yarns for upholstery fabrics in Belgium.

Premium matt look, passes the martindale abrasion pilling test. Easily stain removable.

Matt-look Yarns are used for exclusive high-end shirting and feather light suiting for customers in Italy, France and U.S.A.

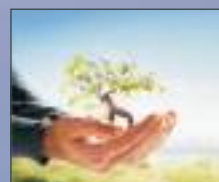
Comfort to the wearer, premium look, unique feel, fabric that breathes.

Have replaced twisted filament yarns and cotton yarns for curtain fabrics in Italy and France.

Superior cotton touch, wrinkle-free, premium matt look, easily washable, pilling proof.

Hair-free, matt-look, spliced Airjet Spun Yarns are used for manufacturing exclusive banners and awnings in Germany.

99% loom efficiency, reduced defects, sticks well to polymers around, forms perfect windows without hairy appearance.



ECO-FRIENDLY



PILLING PROOF



COMFORT WEAR



SUPERIOR COTTON TOUCH



Knot-less spliced yarn also

Our Products

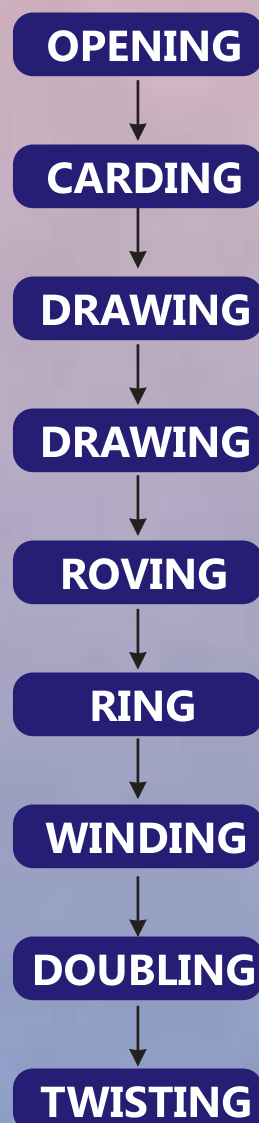
	Yarn Count (Ne)									
	10/2	20/2	30/2	40/2	50/2	60/2	70/2	80/2	90/2	100/2
Raw White (Ecrú) yarns										
100% Polyester semidull	[Dark blue bar]									
100% Polyester Optic White	[Light blue bar]									
100% Polyester Flame retardant	[Dark blue bar]									
Polyester Viscose 65/35 & 52/48	[Light blue bar]									
100% Viscose / Modal	[Dark blue bar]									
Polyester Low melt blended	[Light blue bar]									
Polyester Natural or bleached - Linen blended 85/15	[Dark blue bar]									
Dope-dyed yarns & Melange yarns										
100% Polyester	[Dark blue bar]									
Polyester Viscose 65/35 & 52/48	[Dark blue bar]									
100% Viscose	[Light blue bar]									



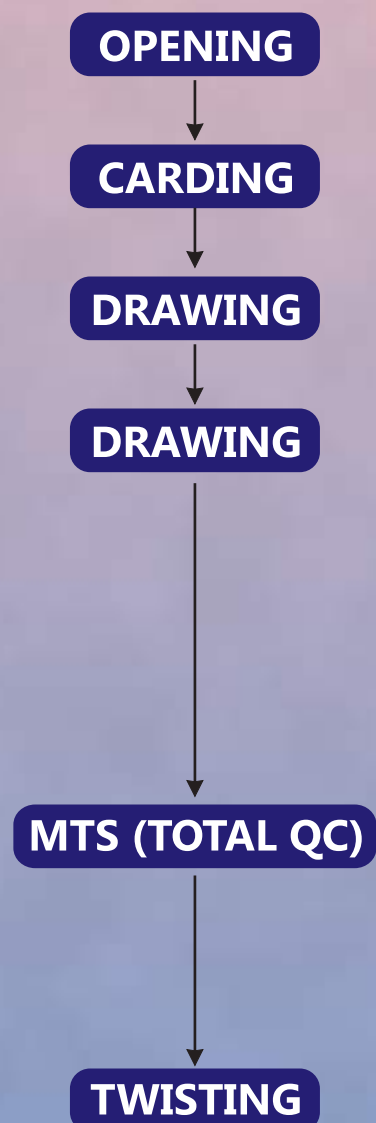
Our Process

Short route of spinning resulting in minimum faults

RING SPINNING SYSTEM

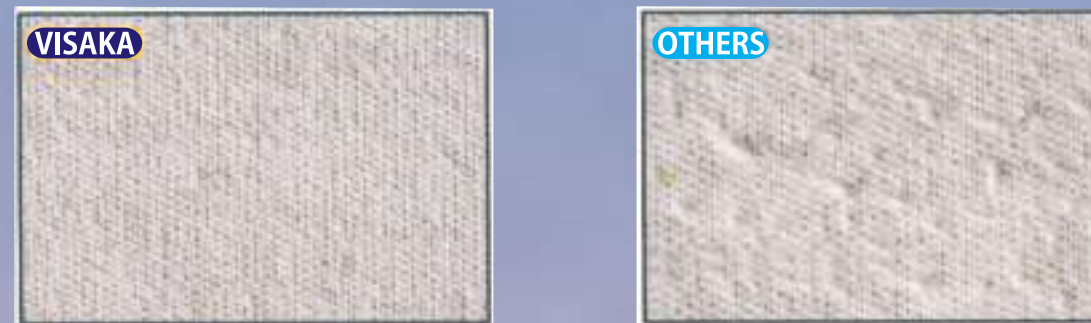


MTS TWIN SPINNER



Our Quality

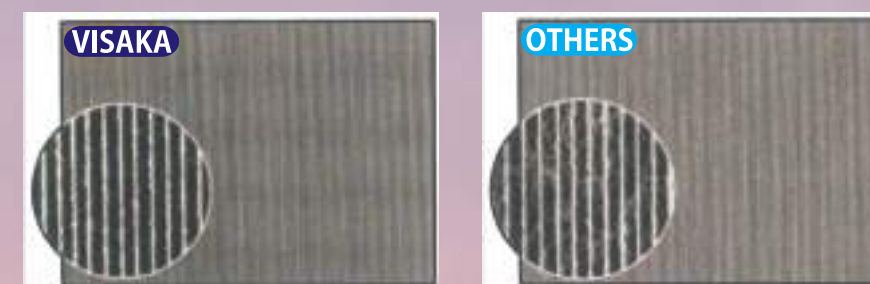
Comparative Characteristics of Yarn from Visaka and Others



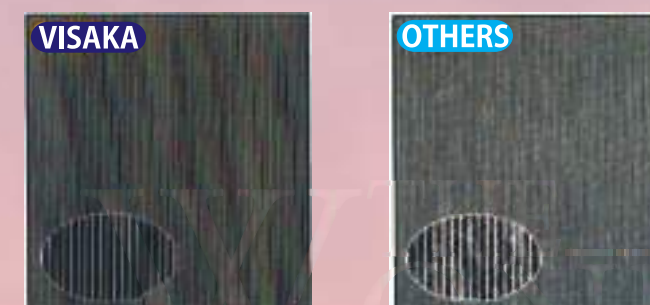
Resistance to Pilling



Moisture Absorption & Quick Drying



Less Hairiness

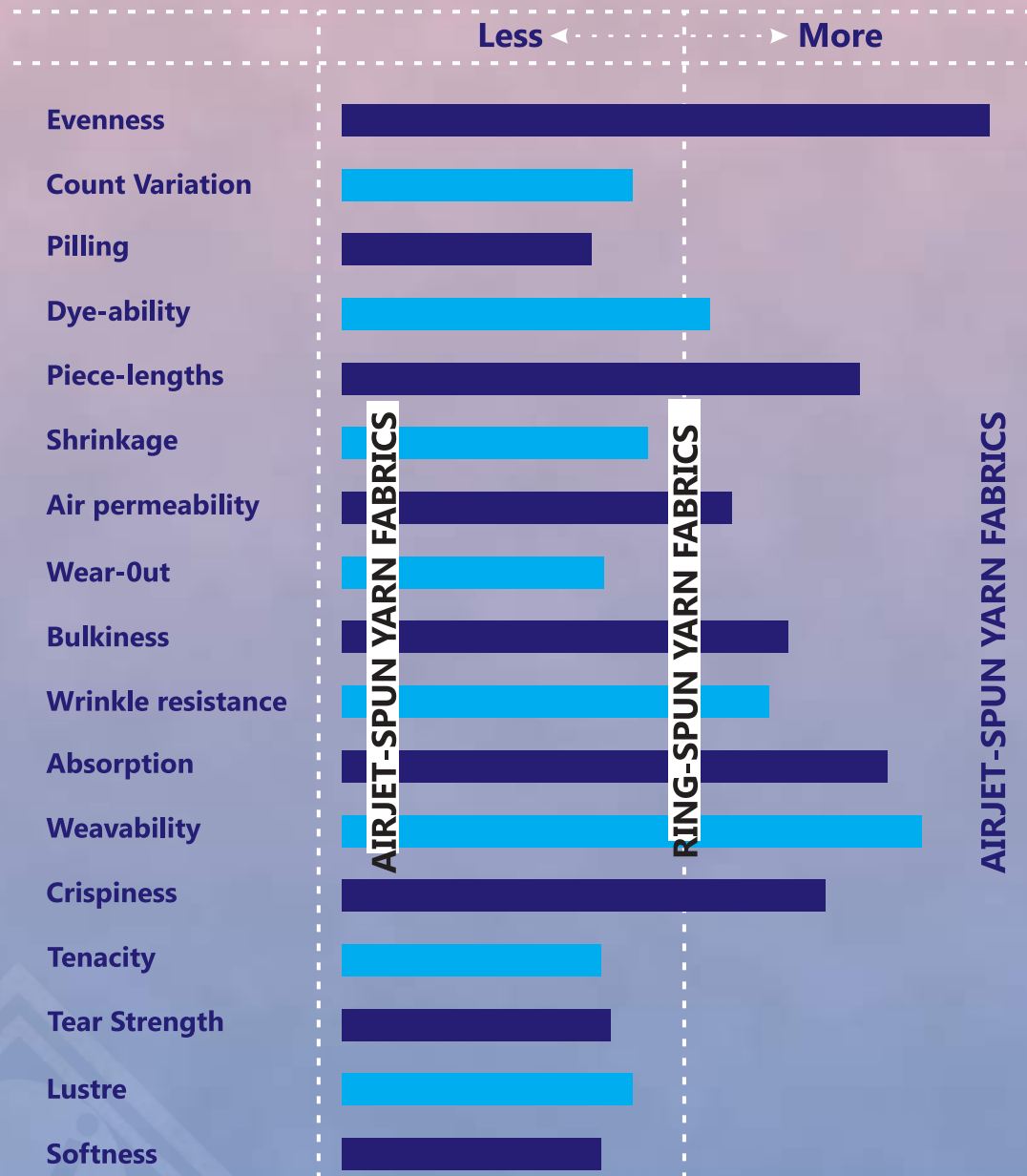


Clean Outer Look

Our Quality



Comparative Characteristics of Fabrics woven using Airjet Yarns and Ringspun Yarns

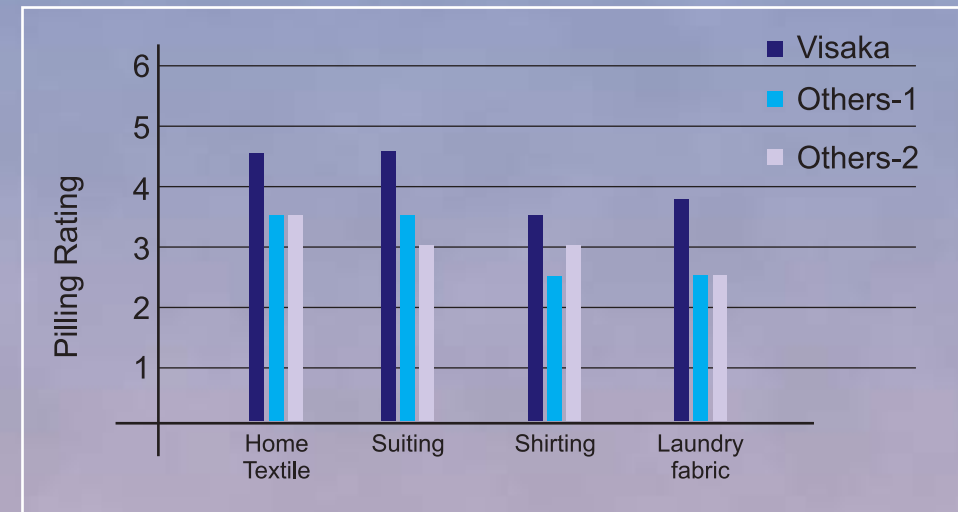


Our Quality

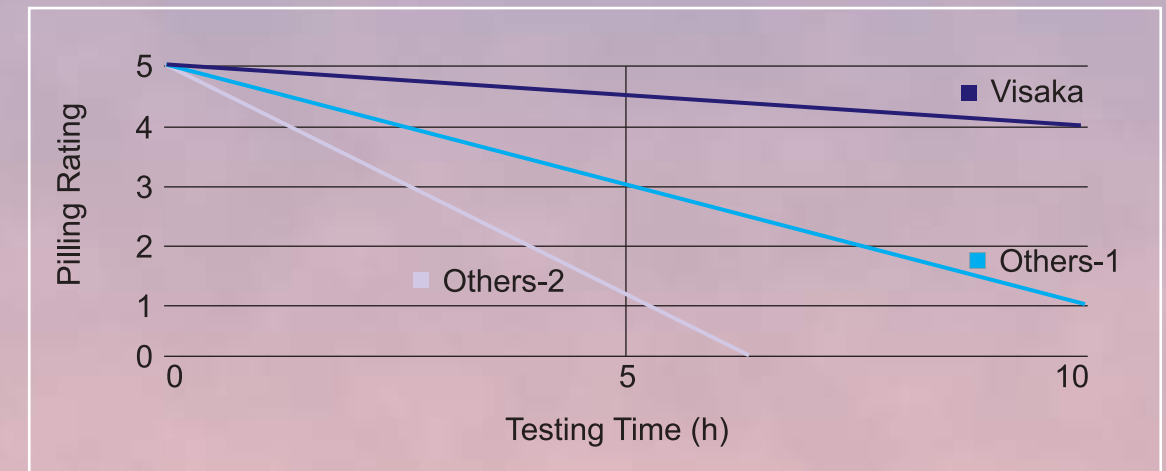
Comparative Characteristics of Yarn from Visaka and Others

Pilling - proof yarn

Random pilling test 60 min exposure (ASTM), US 2011.
Polyester 100%



ICI pilling test (JIS L 1076) 10 hours Japan, 2011.
Polyester Viscose Blended yarn



THE WONDER YARN

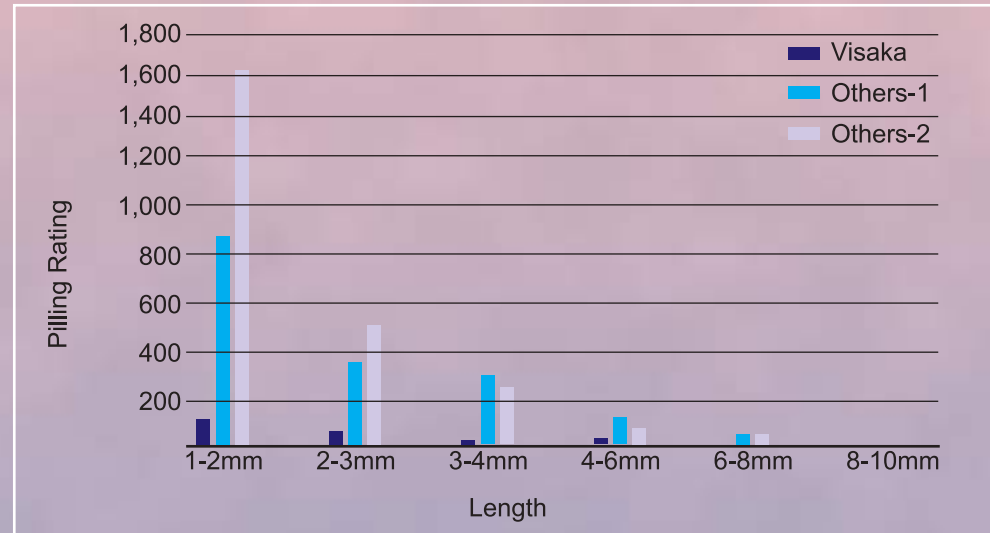
THE WONDER YARN

Our Quality

Comparative characteristics of Yarn from Visaka and Others

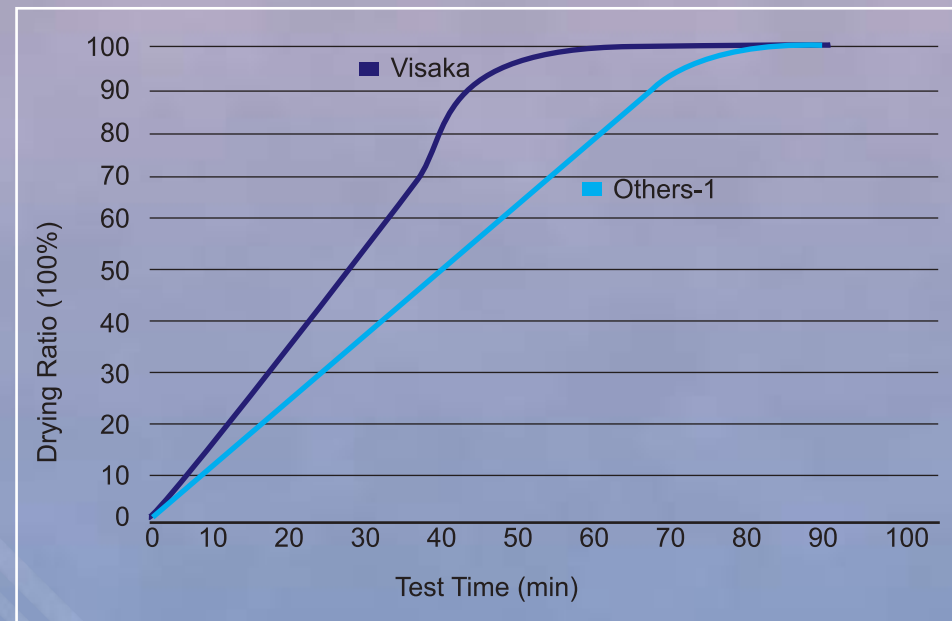
Less Hairiness

Comparison of hairiness No 60/2 Polyester 100% spun yarn
The number of hair per 10mm measured by Zweigle G565, Japan, 2011



Drying Test (ability to get dried up faster)

Weight reduction dry test (JIS L 1096 A method), Japan, 2011



Elapsed time		0min	10min	20min	30min	40min	50min	60min	70min	80min	90min	100min
Drying ration	Visaka	0%	21%	42%	63%	84%	94%	98%	100%	-	-	-
	Others	0min	14%	28%	42%	56%	70%	84%	94%	98%	100%	-

Our Quality

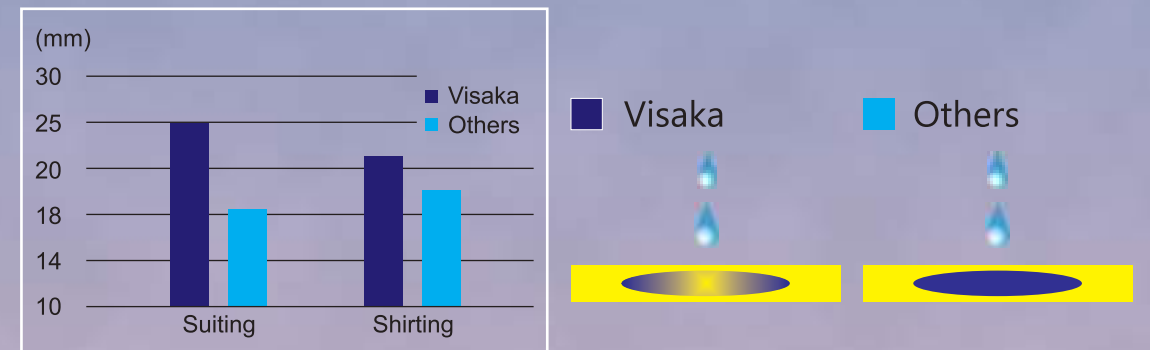
Comparative Characteristics of Yarn from Visaka and Others



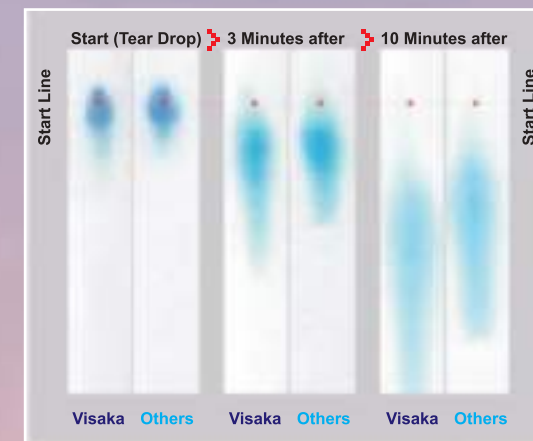
Moisture absorption & quick drying

Tear Drop Test

The maximum diameter of 0.04cc of dropping water 10 sec., Japan, 2011

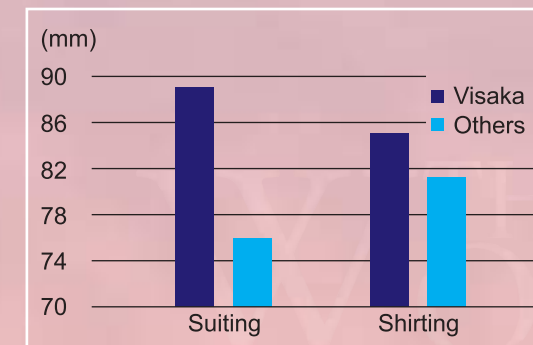


Moisture Absorption



Speed of water absorption

The height of water absorption in 10 min on hanged fabric, Japan, 2011



Air Jet Yarn

Preferred Process Guidelines for fabrics produced using Polyester Viscose dyed AIR JET yarn.

Two Major points to be observed

No singeing

Heat Setting in the stenter at lower temperature with less contact time compared to normal fabrics. Setting temperature 170 to 175 degree Celsius with contact time 30 seconds is ideal.

Minor points, but still valid points

Pre treatment / scouring in jet machine for soft handle using normal lubricating agent, detergent and good quality wetting agent.

While drying, fabric should not be over dried, better to take slight moist.

In Chemical finishing use following combination:

Micro base Amino silicone	20-30 grams per litre
Hydrophilic softener	15-20 grams per litre
High density polyethylene	10-15 grams per litre

Addition of 10 grams per litre Elastomer helps to improve lustre & resiliency

In mechanical finish, Decatise or Sanforise.

For value added finish

Bright & shine appearance

Calendaring with face of the fabric contact with metallic cylinder before Decatising

Very soft & Drape handle

Alkali treatment & washing prior to chemical finish.

Functional finish

Moisture management finish, perfume finish, UV protection finish, easy care, etc. may be given along with the chemical finish.

Suggested chemical for various processes (From CHT chemicals)

Wetting agent - BEISOL PES

Lubricating agent – BIAVIN TCC

Micro Amino silicone – TUBINGAL RGH

Hydrophilic softener – TUBINGAL A27

High density polymer – POLYAVIN PEN

Air Jet Yarn

Process sequence, Parameters & equipment for fabrics free of sizing materials:

S.No.	Process	Parameters	Equipment
1	Greige Heat setting	Temperature – 175c +/- 2 degree celsius, Contact time: 30 seconds Over feed – 4 to 6%	Stenter
2	Pre Treatment/Scouring	Detergent – 1 to 2 grams per litre Soda ash – 2 to 4 grams per litre Wetting agent – 1 to 2 grams per litre Lubricating agent – 0.75 grams per litre Temperature – 90 to 105 degree celsius Time - 20 to 30 minutes Followed by hot wash, cold wash & neutralisation	Jet dyeing machine
3	Drying	Temperature – 140 to 150 degree celsius Avoid over drying Fabric should have 4 to 6% Moisture content Over feed – 2 to 4%	Stenter
4	Chemical Finishing	Micro amino silicone - 20 to 30 grams per litre Hydrophilic softener – 20 to 40 grams per litre Elastomer – 15 to 20 grams per litre Temperature – 140 degree celsius	Stenter
5	Mechanical Finish	Decatise or Sanforise	Decatising or Sanforising machine

Alkali Treatment in jet machine –

Wetting agent	1 to 2 grams per litre
Caustic flakes	2 to 2.5 % or 4 to 5 grams per litre
Anti creasing agent or Lubricating agent	0.75 grams per litre

Material to Liquor ratio	1: 8 or 1:10
Temperature	85 degree celsius
Time	20 minutes
Followed by hot wash, cold wash & neutralisation	

THE WONDER YARN

How to increase your profits by using Air Jet Yarns

		Savings Per meter fabric	Savings in terms of suiting (1kg or 3 mts)
Low Pilling	Low pilling due to unique construction of yarn. Excellent martindale abrasion resistance	\$ 0.75	\$ 2.25
Less Hairiness	Less Hairiness and hence singeing not required	\$ 0.60	\$ 1.80
Cost of Weaving reduced	Cost of weaving reduced due to improved loom efficiency atleast by 3%	\$ 0.12	\$ 0.36
Less Value Loss	Less value loss and longer piece length minimum savings of 10% on 3% gradation loss	\$ 0.09	\$ 0.27
No Surprises	No surprises during weaving and hence assured fabric delivery to your customers	Fabric can be positioned as a premium fabric in the market place	
Other Minor Differences	Fast absorption of perspiration Premium cotton touch or classic touch as desired Matt looking fabric		
TOTAL SAVINGS		156 US cents	468 US cents

Summary of benefits of using Air Jet Yarns

- Low Pilling
- No singeing
- Excellent dye pick up
- Less picks per inch
- Cost of weaving reduced
- Less valve loss / more fresh piece length
- Perspiration absorption
- Low shrinkage
- Smooth Appearance
- Bulkier Fabric



Location of Visaka Industries Factories



- ◆ Corporate Office
- ◆ Roofing Sheets Factories
- ◆ Fibre - Cement Boards Factories
- ◆ Yarn Factory

THE WONDER YARN