



USTERIZED®

Application form

Spinning mill name

Textile Technology / Version 1.0

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1 General data

1.1 Company profile

Company name:

Address:

City:Country:.....

Date:

Person who filled-in the questionnaire:

Position of person who filled in the questionnaire

1.2 Installed machinery

Number of mills – workshops	
Number of ring spinning positions	
Number of compact spinning positions	
Number of OE-rotor spinning positions	
Number of air-jet spinning positions Specify the type of the machine(s)	
Number of twisting positions	
Number of knitting machines	
Number of weaving machines	

1.3 Raw materials and yarn types

Raw materials	Cotton %
	Polyester %
	Viscose %
	Wool %
	%
Yarn count range and average, (Ne, Tex, Nm)	-
What percentage of the yarn production is blends?	
Average number of articles per year	
Average article changes per week	
Production of special yarns	Slub Core Melange Plied Colored SIRO Others

1.4 Additional information

Total yarn production per year	
Total number of personnel	
Main consumption of the yarn (export, local)	
Is the spinning mill ISO certified?	

Combed yarn, %	
Carded yarn, %	

Knitting yarn, %	
Weaving yarn, %	

Sales yarn, %	
Vertical, %	

Yarn end use

Apparel	
Home Furnishings	
Carpet	
Military	
Industrial/Technical	
Medical	
Other	

2 Quality control

2.1 List of quality control equipment

Type of testing	Uster equipment				Non-Uster equipment	
	Model		Details		Model	Details
Blow-room contamination control						
Fiber bundle testing ¹						
Single fiber testing						
Count determination						
Yarn evenness testing	2		3			
	2		3			
Yarn Hairiness testing						
Strength testing						
Faults classification (CLASSIMAT)						
Yarn clearers	Model	%	FF/PP	Q-Data		5
	4	5				5
	4	5				5
	4	5				5
Data systems	6				6	
	6				6	
	6				6	

¹ If AFIS, enter if instrument has the Trash Module in the Details field

² Enter the model of the evenness tester, e.g. UT3, UT4, or UT5

³ Enter the sensors available

OH Optical Hairiness Sensor

OM Optical Multifunctional Sensor

OI Optical Impurities Sensor

FA Automatic count determination

⁴ Enter the yarn clearer type, e.g. UQC2 C20 or UQ3 C15 or UQ3 O30

⁵ Enter the percentage of the installed clearer type

⁶ Enter the type of data systems available, e.g. SLIVERDATA, and UQE3

2.2 Service agreements

Is there a service agreement for the above-mentioned USTER equipment?

Laboratory systems service number

Yarn Clearer systems service number

2.3 Laboratory conditions

The standard atmospheres for conditioning and testing according to ISO 139:2005 is 20°C +/- 2° and 65% +/- 4% relative humidity, or ASTM D1776 -21°C +/- 1° (70 °F +/- 2°) and 65% relative humidity. When the mill operating in countries belonging to the tropical zone, the conditions are 27°C +/- 2° and 65% +/- 4% relative humidity.

Temperature in the laboratory °C

Rel. humidity in the laboratory % r.H.

How do the conditions monitored and maintained in the laboratory?

2.4 Samples preparation

How long the samples conditioned prior to the testing (in hours)?	Fibers	<input type="text"/>
	Slivers/roving	<input type="text"/>
	Yarns	<input type="text"/>

Are there any tests performed on a dry basis? If yes, which are they?

Do the yarns samples from the packages measured directly from the machines or after steaming (or humidification or heat setting)?

2.5 Sampling

Add the sampling plan (routine test plan) of your mill to this application form or use the box bellow.

2.6 Round trials

Do you participate in any round test for yarns and fibers? If yes, please mention them.

3 Mill structure and quality management

Explain the organization of the spinning mill and the position of the quality management

How is the organization of the quality control?

Quality control manager	
How many laboratories does this location have and what is their function (in case of many)	
Number of operators	
Working hours of laboratory per week	
With how many shifts/day does the laboratory or laboratories operate?	

4 Quality management

Provide an example of the quality specifications you are providing

How do you know your customer requirements?

Do you set short or long-term quality targets? If yes, provide few examples.

What are the quality improvements you have achieved in the last 2 years?

Which are the 3-5 most frequent and recent claims you received?

How did you manage them? What actions have you undertaken?

Which are the 3 most serious and important quality challenges in your mill that you identified and you would like to improve?

How do you monitor the quality and its consistency in the mill?

How do you utilize the results from the laboratory tests and the yarn clearers? Could you share 3-5 examples of corrections/improvements you achieved based on such results?

Are you training the mill personnel (operators) about quality? How often and which tools and techniques you are using?

Which are the most critical areas in spinning that you are monitoring closely? How do you improve based on this monitoring?

In case there is a need to make a decision that will improve the quality but will decrease the productivity, what is the process for making a decision?

How is the raw material sourcing organized? What is the role of quality in that process?

What is the basis for setting up the yarn clearing limits in the yarn clearers?

Are the ejected bobbins tested in the laboratory systematically and periodically? Is a closed-loop system installed?

Are you testing regularly (e.g. weekly) standard material? If yes, what is this material and the instruments?

In case a result from a test is outside your control limits, what are the actions you are taking?

How are you using USTER STATISTICS in your mill?

5 Appendix

5.1 Yarn quality profiles (specifications)

Please provide us with the yarn quality profiles of the five most popular articles in your mill.

For each article, provide the quality profiles (see template in the next page) from three different periods within the same lot, e.g. with a distance in production of 2-3 weeks.

5.2 Routine test plan

Please provide us with the routine tests plan you are following currently in your mill.

Article name Ne Fiber Spin. System

Instrument	Parameter	Description	Unit	Period 1	Period 2	Period 3
				Value	Value	Value
	CVcb	Coefficient of variation of count between	%			
	CVm	Coefficient of variation of mass	%			
	CVm 1m	Coefficient of variation of mass	%			
	CVm 3m	Coefficient of variation of mass	%			
	CVm 10m	Coefficient of variation of mass	%			
	CVmb	Coefficient of variation of mass between	%			
	Thin -40%	Thin places per 1000 m	1/1000m			
	Thin -50%	Thin places per 1000 m	1/1000m			
	Thick +50%	Thick places per 1000 m	1/1000m			
	Neps +200%	Neps per 1000 m	1/1000m			
	Neps +280%	Neps per 1000 m				
	H	Hairiness				
	sH	Standard deviation				
	CV 2D 0.3mm	Coefficient of variation	%			
	Density	Density	g/cm3			
	CV FS	Coefficient of variation	%			
	Shape	Shape				
	S3	Hairiness classification	1/100m			
	RH	Breaking tenacity	cN/tex			
	CV RH	Coefficient of variation of tenacity	%			
	EH	Breaking elongation	%			
	CV EH	Coefficient of variation of elongation	%			
	T/m	Twist per meter	T/m			
	CVT	Coefficient of variation of twist	%			
	Top 9	Rem. Defects top 9 classes - NSLT	/100km			
	Top 12	Rem. Defects top 12 classes - NSLT	/100km			
	Top 16	Rem. Defects top 16 classes - NSLT	/100km			

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