

# USTER textile laboratory testing

## Full range of services

USTER offers three different testing packages. Single textile testing is available for fibers, sliver and rovings, staple fiber yarns and filaments. Furthermore, customer can request special tests for clearing limits optimization.

All prices are on request.

### Proceeding

- Customers send samples of the requested size to USTER (see last page for postal information) including complete contact details of the sender (company name, address, contact person, phone and e-mail address)
- Samples should be packed and identified properly and required tests must be clearly specified.
- After receiving the payment it takes two working days for sample conditioning.

- Testing time depends on the number of tests (one to two hours per sample and per test)
- Reporting time is subject due to the report's complexity and vary from 30 minutes to three days.

Please allow five to ten days for all mentioned service steps. Test reports will be sent by e-mail right after completing the order.

As a further service, trainings are provided for USTER® testing and monitoring instruments as included in the list below.

Please contact for any inquiries.

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Item	Test Description	International Standards	Sample volume	No. of required sub samples	No. of tests per sub sample
1	<b>Testing Package 1</b>		USTER® AFIS PRO 2: 50 g (raw cotton, card mat, sliver, roving)	10	1
	USTER® AFIS PRO 2				
	USTER® TESTER 6				
	USTER® TENSORAPID 5		and		
	USTER® TENSOJET 5		10 cones		
	USTER® ZWEIGLE TWIST TESTER 5 USTER® CLASSIMAT 5		(total 250 km yarn)		
2	<b>Testing Package 2</b>		10 cones (total 50 km yarn) or	10 or 20	1
	USTER® TESTER 6		Yarn > Ne 30,		
	USTER® TENSORAPID 5		10 full bobbins		
	USTER® TENSOJET 5		Yarn < Ne 30,		
	USTER® ZWEIGLE TWIST TESTER 5		20 full bobbins		
3	<b>Testing Package 3</b>		10 cones (total 250 km yarn)	10	
	USTER® TESTER 6				
	USTER® TENSORAPID 5				
	USTER® TENSOJET 5				
	USTER® ZWEIGLE TWIST TESTER USTER® CLASSIMAT 5				

Item	Test Description	International Standards	Sample volume	No. of required sub samples	No. of tests per sub sample
4	<b>USTER® HVI 1000 – bundle fiber testing</b> Determination of fiber fineness, maturity index, fiber length, fiber strength, fiber elongation, color, trash and leaf code	ISO 2403, ASTM-1445, -1447, -1448, -2812, -5867 GB/T 20392	300 g	1	10 length/strength 10 color/trash 5 maturity
5	<b>USTER® AFIS PRO 2 – single fiber testing</b> Determination of fiber and seed coat neps, fiber length, short fiber content, maturity, trash and dust	ASTM-5866	50 g (raw cotton, card mat, sliver, roving)	10	1
6	<b>USTER® TESTER 6 – sliver and roving</b> Determination of sliver or roving evenness	ASTM D1425- D1425M	10 roving bobbin	10	1
7	<b>USTER® TESTER 6 – short and long staple yarns</b> Determination of yarn evenness, imperfections, hairiness, diameter, shape, density, trash and dust	ISO 2060, 2649, ASTM-1425, IWTO 18-94	10 full bobbins or small cones	10	1
8	<b>USTER® TESTER 6 – slub yarn testing</b> Determination of slub length, slub distance, mass increase, slub scatter plot, slub classification, slub sequence, etc.		10 full bobbins or small cones	10	1
9	<b>USTER® TENSORAPID 5 – staple yarns</b> Determination of yarn strength and elongation, test speed 500 mm/min, 5000 mm/min, 20 second tests or according to specific requirements, fiber cohesion tests (sliver), fabric tests, etc.	ISO 2062, DIN 53835, 53842, ASTM 1578, 2256, 3107, 2612, 4964, 5034, 5035, GB/T 3916, 3923.1	10 full bobbins or small cones	10	20
10	<b>USTER® TENSOJET 5 – staple yarns</b> Determination of yarn strength and elongation, detection of weak places, test speed 400 m/min	-	10 full bobbins or small cones	10	1000

Item	Test Description	International Standards	Sample volume	No. of required sub samples	No. of tests per sub sample
<b>USTER® CLASSIMAT 5</b>					
11	Determination of seldom yarn faults like thin and thick places, count variation and foreign fibers, polypropylene, YARN BODY™/dense area comparison, outliers and quality comparison, etc.	-	Total at least 200 km yarn 10 cones	10	
<b>USTER® ZWEIGLE TWIST TESTER 5</b>					
12	Determination of turns per meter, twist multiplier – available for ring and plied yarn	ISO 2061, 17202, ASTM 1423, GB/T 2543.1, 2543.2	10 full bobbins or small cones	10	10
<b>USTER® AUTOSORTER 6</b>					
13	Determination of yarn count		10 full bobbins or small cones	10	1
<b>USTER® TESTER 6-C – filament yarns</b>					
14	Determination of filament evenness and interminglings	ASTM D1425/1425M, ISO 16549, ISO 2060	minimum 1 cone	1	1
<b>USTER® TENSORAPID 5 – filament yarns</b>					
15	Determination of filament strength and elongation, cycle tests, hysteresis tests, test speed 500mm/min or according to requirements	ISO 2062, DIN 53835, ASTM 2256, BISFA 17	minimum 1 cone	1	20
<b>USTER® QUANTUM 3</b>					
16	Optimization of clearing limits on ring-, compact-, rotor-, air jet yarns concerning quality and the production		on request		

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