



Consistency

ARE YOU SPINNING YOUR WHEELS?

Recent advances in today's textile machinery have pushing the relationship between processing speeds and production to it's upper limits. If processing speeds are determine by the natural charastic of a cotton fiber, is this to say that using today's high speed cleaning and spinning machinery, spinning efficiencies have reached their limits?

GINTEX™ *Fiber Conditioner* preserves fiber quality during processing and improves preparation allowing your spinning mill to increase it's production without the adverse affect of poor yarn quality. As seen in tables 1 and 2, tests show cotton conditioned with GINTEX™ improved fiber preparation through the cleaning, carding, drawing, and roving process resulting in fewer ends down and improved yarn quality.

Mill Test 1	Control	GINTEX	Change
Cards			
C.V. % Uster	4.38	4.45	1.59%
Neps 100"2	21.34	21.08	-1.21%
Combing 1			
C.V. % Uster	4.56	4.42	-3.07
Combing 2			
C.V. % Uster	4.01	3.76	-6.23%
Roving			
C.V. % Uster	5.83	5.66	-2.91
Breaks/ 100F/Hour	10.42	7.34	-29.5%
Yarn Ne 24			
C.V. % Uster	16.32	15.51	-4.96
Thin Places	24	7	-70.8%
Thick Places	382	279	-26.9%
Neps	383	290	-24.28
Breaks/ 1000F/Hour	37.70	24.47	-35%
% C.V. Yarn	1.75	1.44	-17.71%

"Department of quality control certified no difference in dye intake between control and treated yarn samples."

MECHANICS

GINTEX™ is a non oil based/non silicon based *Cotton Fiber Conditioner* which reduce fiber to machinery friction. As a result fiber and foreign matter move freely without static electricity in the direction intended. A uniform flow of cotton improves processing efficiencies and reduces fiber damage caused by a harsh processing environment.

REPEATABILITY

RS Ne 24	Control	GIN-TEX	CHANGE
Cleaning Efficiency	40.6%	51.5%	+27%
Carding Breaks Neps	0.13 10.4	0.08 7.9	-38% -24%
Combing Breaks Neps	0.81 19.6	0.25 15.7	-69% -20%
Drawing Breaks	3.0	3.5	+16%
Roving Breaks	58	27	-53%
Yarn Breaks/1000/FH	85	64	-24%

TABLE 2: MILL 2

"With the application of GINTEX we noticed a significant difference in comparative results: 25% reduction in returnable filter fiber as well as a 25% decrease in dust and loose fibers surrounding the areas significant to the spinning process. Uster analysis recorded a 6% increase in yarn strength, 13% increase in elongation, and a 15% decrease in CV%"

Control of Quality

Nep Reduction

Through improved cleaning and a gentler processing environment, GINTEX decreases the number of neps throughout

	Control	GINTEX	Change
Cards			
1	48	37	-23%
3	38	37	-2.6%
4	47	37	-21.3%
6	47	39	-17%
7	38	34	-11%
Yarn	27	22	-19%