



# Consistency

## GINTEX III IMPACTS THE 2 AREAS MOST IMPORTANT IN A MILLING PROCESS “REDUCING THE LOSS OF RAW MATERIAL AND INCREASING THE OUTPUT OF QUALITY YARN”

Over \$120,000 Dollars in good spinnable fibers are lost each day in pursuit of quality. To help control this loss and increase yarn output through milling consistently, Cotton Conditioners Inc has integrated 2 old ideas, “humidity and chemistry”, and packaged them into a simple solution to *reducing the Loss of Raw Material* and *Increasing the Output of Quality Yarn*.



Control

Gintex® III

Through the use of Gintex III, a Cotton Fiber Conditioner applied by our newly developed Advanced Conditioning System, cotton fibers are chemically reformatted adding improvements in opening, cleaning, and fiber strength through a control of applied humidity added at multiple points of application. Under cleaning waste extracted (see above photo), contains a higher percentage of trash while allowing the good spinnable fibers to move freely in the direction intended. Improved fiber preparation impacts uniformity reducing sliver breaks through carding and drawing while a reduction of trash, dust and short fibers improve quality and efficiencies.

1,000,000 Lbs of Cotton Opened per month	Control	Gintex
% Waste Lost	5.5%	4.8%
Pounds of Waste	55,000 Lbs	48,000 Lbs
Percent of Trash using a Shirely trash analyser	52 %	63 %
Percent Fiber using...shir..	48 %	37 %
Pounds of Fiber	26,400 Lbs	17,760 lbs
Difference or Savings		8,640 lbs

**LOSS OF RAW MATERIAL:** As seen in the photos above careful analysis of the *waste* extracted from the opening and carding line show a significant amount of good spinnable fibers remained in the waste (control). Gintex III encourages the separate of trash and cotton reduced static through lubrication improving cleaning and fiber movement. Results show Gintex III reduced the overall loss of good spinnable fiber by 8,640 lbs for every 1.0 million lbs opened. Calculation of the trash measured an increase of 1,640 pounds.

*For Rings Spun Process involving aggressive cleaning and combing, saving in fiber loss can reach as high as US\$7,651 per every 1,000,000.0 pounds processed.*

**DOLLARS and CENTS:**

Cost per 1,000,000 Pounds.....US \$1,853  
 Savings of 8,640 lbs @ 0.55cents/Lbs US \$4,752  
 Net Gain ..US\$2,899 for every 1,000,000 lbs processed

**INCREASED PRODUCTION:**

When opportunity is exist, (which it always is when working with natures wonder “cotton”) conditioning fibers encourages a smooth flow of cotton through a milling process. Improved cleaning and dust removal reducing rotor deposits. Fewer broken fibers introduced to the spinning frame decrease lint deposits in those areas most significant to spinning and quality.

*“With Gintex my mill reached and maintains those good days more consistently”*

**For more information please contact:**

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Average of 100 OE Frams	Control avg. 8 week prior	Gintex avg. 4 week	Control avg. 4 week	Change
<b>Ne 18/1</b>				
Efficiency	90.15	191.56	92.01	2.38%
Breaks/ 1000r hr	202.21	93.25	221.58	-9.57%
<b>Ne 23/1</b>				
Efficiency	92.52	93.86		1.44%
Breaks/ 1000r hr	228.17	190.27		-16.6%
<b>Ne 26/1</b>				
Efficiency	92.31	93.9	93.04	1.32%
Breaks/ 1000r hr	217.93	187	208.04	-12.30%
<b>Ne 28/1</b>				
Efficiency	91.95	94.41	92.74	2.23%
Breaks/ 1000r hr	248.26	223.42	292.63	-17.38%