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# GRAPHIC ANALYSIS OF THE OBTAINED RESULTS ON COTTON REGENERATION

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**Abstract:** In this article, samples of cotton fibers (selected industrial grades such as S-65-24 I/1, Bukhara-102 I/1, and Andizhan-36 I/1), obtained in the ginning process after the newly created regeneration of cotton linters in cotton waste coming from the cotton ginning unit of the UHK, were tested in the laboratory system HVI (High Volume Instruments). According to the results of all tests, it was established that the cotton fibers are suitable for spinning.

**Keywords:** laboratory, regeneration, cotton linter, filler, waste, testing, result, fiber, efficiency, resource-saving technology.

**Introduction.** Since the demand for cotton fiber in the world is high, the use of equipment and technologies in the production and equipment used during the initial processing of raw cotton is taking part in the leading positions. "Worldwide, 23-24 mln. Tons of cotton fiber are produced but amounts to 23.5-25 million tons of annual consumer production. The volume of short-up fiber is covered by the cost of raw materials. In this regard, the identification of factors that have been recognized as a world-renowned product and adversely affect the number of products and quality processing, reducing production costs Through reduction of its cost, increase the efficiency of production and the use of energy-resource-efficient equipment and equipment is important.

### Literature analysis and methods.

Grate in the new design is low, 45 brands of steel - 45 brands, have been prepared from the high, low-eating steel.

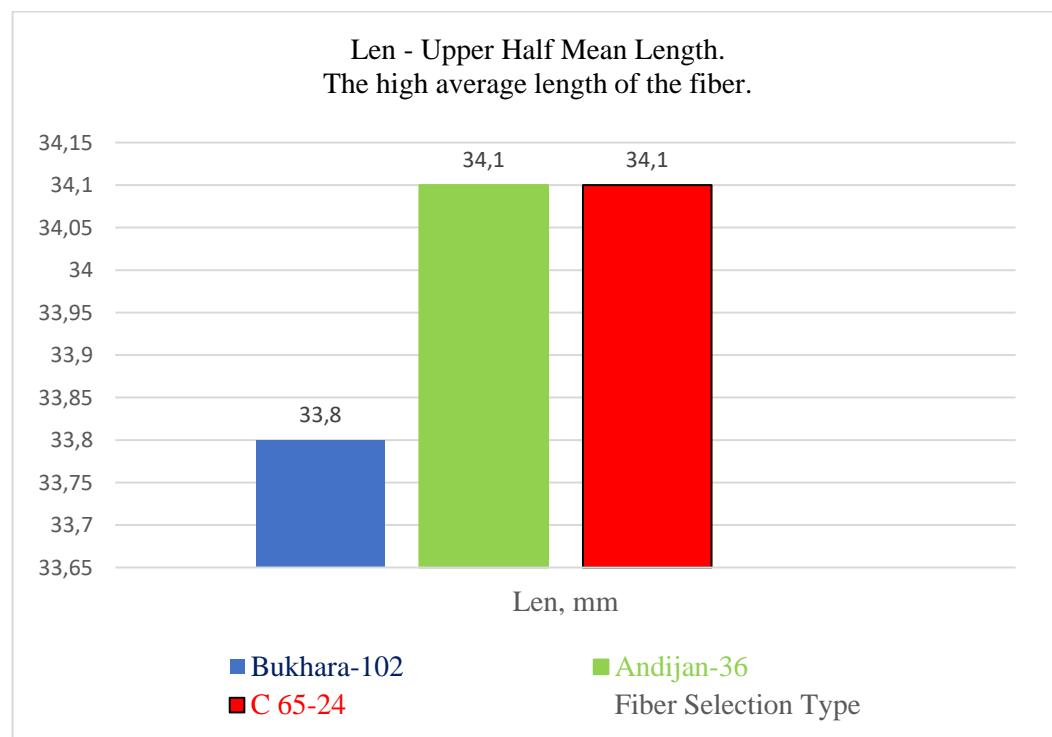
As a result of changing the structure of the grates, the effectiveness of the presidents of the recent cleansing, the efficient chase of the state of waste, the effectiveness of cotton in the presidents, and the detergence of 15% increased by 15%.

**Table 1.** ANDIJAN-36 Selection of selection fibers Testing results on International Quality Indicators in HVI 900 Laboratory

№	Setting quality indicators in the laboratory system HVI (High Volume Instruments)	Fiber quality indicators		
		Study 1	Study 2	Study 3
1.	Len-Upper Haifa Mean Length. Inch, mm	1.12 inch	1.13 inch (28.7 mm) 33.8 mm	1.14 inch (28.9 mm) 34.1 mm
2.	Unf-Uniformity Index. %	83.70	84.20	83.90
3.	SFI-Short Fiber Index. %	5.90	7.0	6.80
4.	Mic-Micronare.	4.3	4.7	4.4
5.	EIg-Elongation. %	6.80	6.70	6.90
6.	Str-Strength. gs/tex	31.7	32.0	31.8
7.	Rd-Reflectance.	76.20	77.0	76.40

8.	+b-Yellowness.	8.60	8.60	8.80
9.	Trash-Trash Code.	5.8	5.9	6.0
10.	Cnt-Trash Count.	11	12	12
11.	Area-Trash Area. %	0.8	0.8	0.7

In addition, the cotton fragments separated from the UXK cotton ginning unit were produced and determined the fiber.

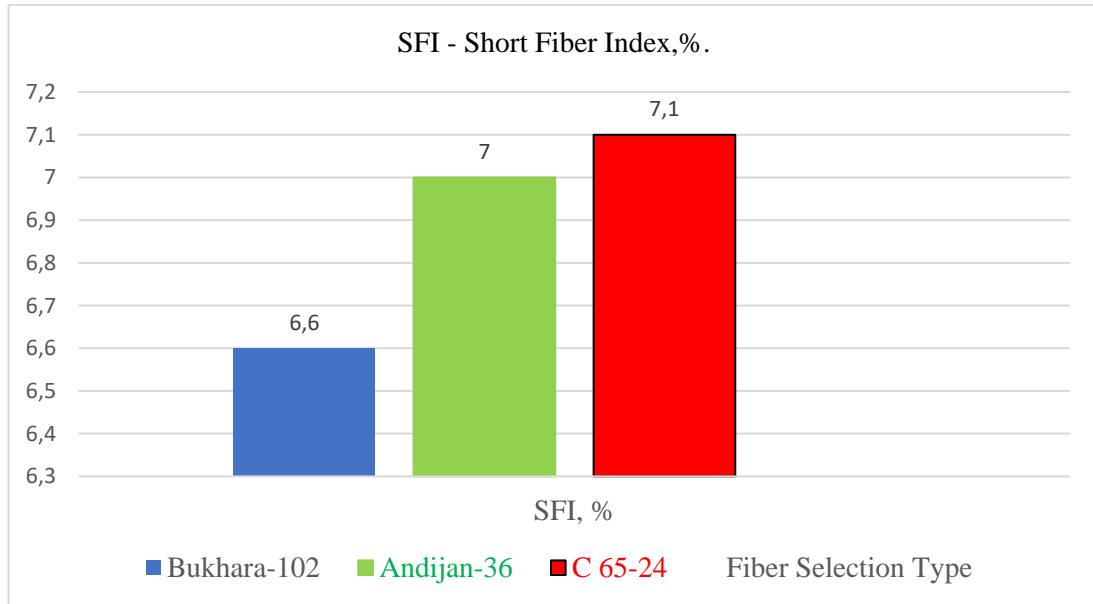


**Figure 1.** Test results in the HVI laboratory system on selection varieties of cotton fibers

The quality indicator of this 1 is the average length of the longest stumbles that form the semi-forming sample mass, in an inch or mm. According to the conclusion of the Fiber Quality Certification Center, these 33.8 mm (1.13 inch) 34.1 mm (1.14 inch), and 34.1 mm (1.14 inch) are filled with spinning.

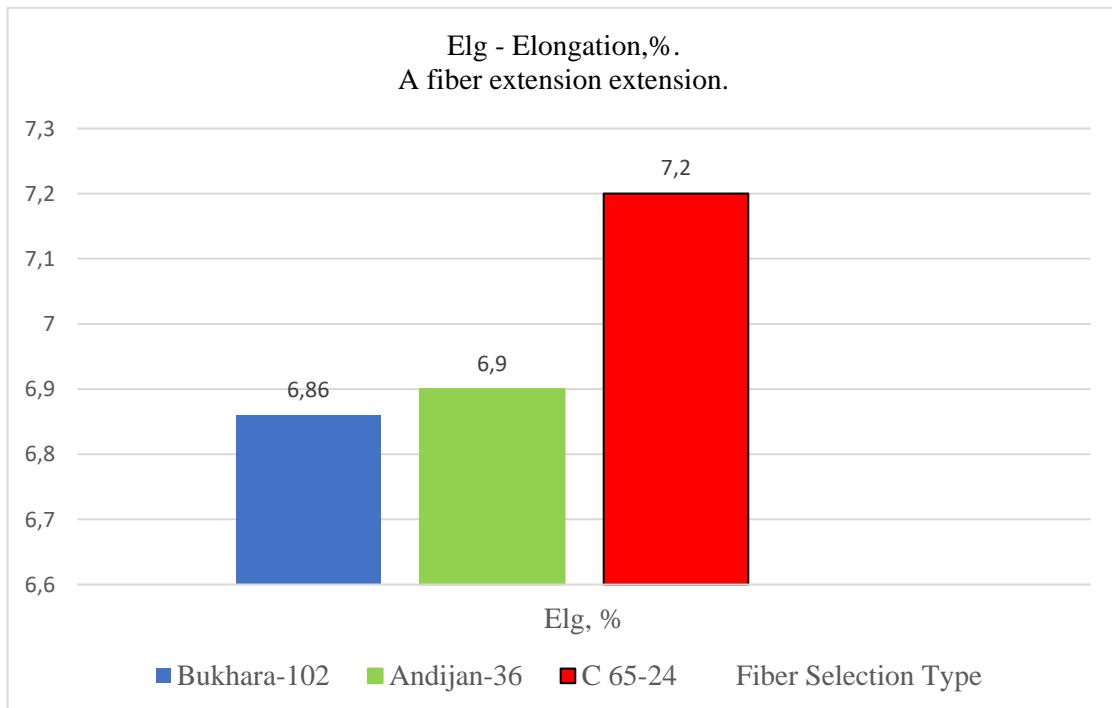
The 1st and middle classes of cotton in laboratory tests were used in the 4th TIP (C 65-24) and the 5th type of Bukhara-6, Andijan-36 fibers. This cotton was grown in the Turakurgan district of Namangan region.

The quality of figures in Figure 2 is the share of 0.5 inches (12.7 mm) shortened in the HVI laboratory system. Is characterized by a percentage. Practice shows that short fibers have been proven to be from 3.5% to 7.75 percent in high varieties. Low-grade fibers, how much the percentage of short fiber is also identified in scientific and practical research. Cotton industry Specialist and scientist R. Abdullayev's Menial knowledge-practical research is the first time in the case of natural fibers in the natural quality of shorts.



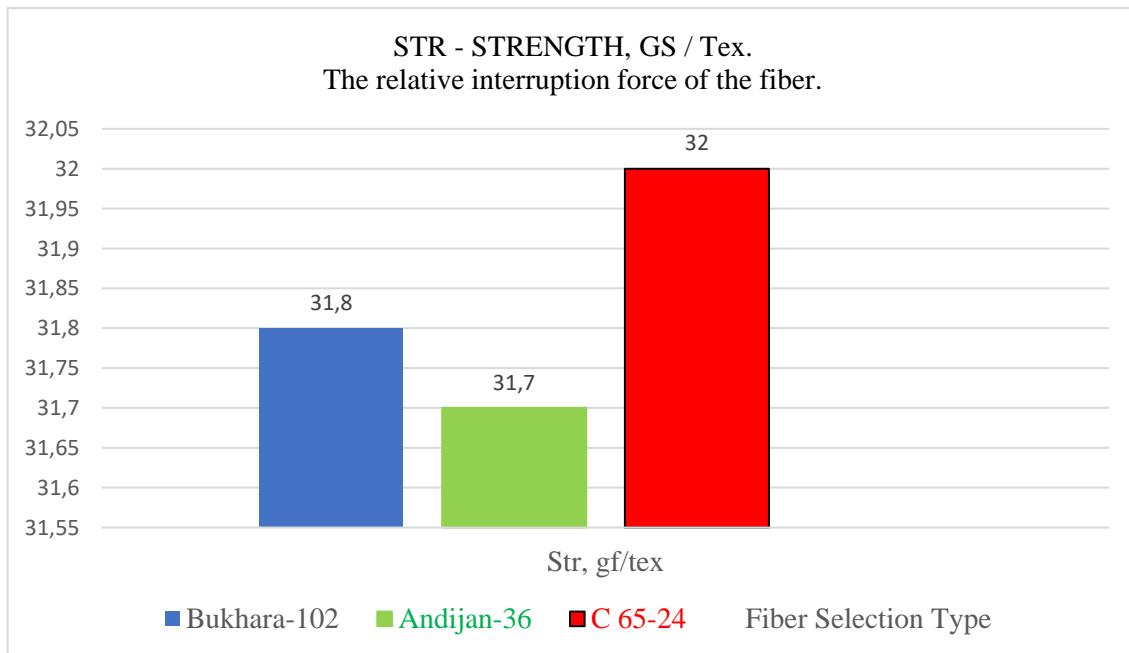
**Figure 2.** On selection of varieties of cotton fibers (Bukhara-102, Andijan-36, C 65-24) Summers (SFI) Test results in the HVI laboratory system of the United States

Disperment of fiber in Figure 2 (Elg-elongation) - the extension of fiber from the diameter in the HVI is an extension of fiber. As part of this dissertation, the quality indicators of the HVI in HVI are gaining 6.86, 6.90, and 7.20 percent. There is a chance of spinning of these fibers.



**Figure 3.** Disconnection of cotton fibers on selection varieties extension (Elg-Elongation) US HVI-Laboratory Test results in the system

In Figure 3, the comparative interruption force of cotton fiber is the temperature of the calibrated cotton (HVI CFLibration Coton) is characterized by (CN / TEX) in HVI graderse. The relation of relat to the cotton-skinned cotton fiber provides quality indicators of 31.8, 31.7, and 31.0 GS / Tex values. This is the supremacy of fiber in spinning.



**Figure 4.** The relative disruption power of the fiber on selection varieties of cotton fiber (STR) test results in the HVI laboratory system of the United States

The quality of fiber from cotton pieces meets the existing standards and the impact of it economic efficiency.

The following table requirements are used in the highly effective laboratory system HVI (HIGH Volume Instruments) to the higher education international cotton standard and the National Fiber Cotton Fiber, as well as the national 2011 cotton fiber standings and separated from cotton jumps on the topic of the dissertation. Mutual quality indicators are compared.

**Discussion and results.** The components of the waste separated during the cleaning of cotton raw materials were conducted on the number of cotton slices and practical experiments on their separation technology.

1. Regenerator device performed experience in identifying the departmental parameters of the new design, and experimental experiments using various sizes of incoming factors that ensure the effective operation of the device.
2. Polinom Errancing coefficients use the Stubden Criterion, initially a persuasive interval for all regression coefficients.
3. Regenerator device with new working parts was prepared for the production of "Turakurgan cleansing gin" of Namangan Texter LLC.



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