ACADEMICI

ISSN: 2249-7137 Vol. 11, Issue 3, March 2021 Impact Factor: SJIF 2021 = 7.492

ACADEMICIA
An International Multidisciplinary Research Journal
(Double Blind Refereed & Peer Reviewed Journal)

DOI: 10.5958/2249-7137.2021.00600.5

ANALYSIS OF CHANGES IN THE PHYSICAL AND MECHANICAL PROPERTIES OF TWISTED YARNS AS A RESULT OF FINISHING

Yusupov Alijan Abdujabbar ugli*; Bobojanov Husankhon Tokhirovich; Yuldashev Jamshid Qambaraliyevich*****

*Researcher,
Department of Metrology Standardization and Quality Management,
Namangan Institute of Engineering and Technology,
Namangan, UZBEKISTAN
Email id: alijonyusupov533@gmail.com

**Associate Professor,
Department of Technology of Products of Textile Industry,
Namangan Institute of Engineering and Technology,
Namangan, UZBEKISTAN
Email id: husanbobojanov@gmail.com

***PhD Associate Professor,
Technical Sciences, Namangan Institute of Engineering and Technology,
Namangan, UZBEKISTAN
Email id: jamshid_yu_q@mail.ru

ABSTRACT

The article examines the effect of the finishing process on the physical and mechanical properties of twisted yarns based on practical research. The results of the applied research were analyzed, and graphs of correlation coefficients of variability in terms of unevenness, tensile strength and tensile strength of the obtained samples were constructed and analyzed. Based on the analysis, alternative options were recommended. The defining properties of yarn and threads in the standards include linearity, toughness, toughness, elongation, and flatness. The linear density of yarn yarns is determined by the text value, such as fibres. The thickness of the yarn is determined by the mass in grams of 1000 m yarn in the text system. The higher the numerical value of the text, the thicker the yarn.

KEYWORDS: *Spinning yarn, Annular spinning, Twisted, toughness, Unevenness, Tensile strength, Product quality, Spindle, Carda, linear density, Relative elongation, Relative elongation, Consistency.*

REFERENCES

1. Kosimov, A. A., Bakhriddinova, S. F. K., & Abdulazizov, S. A. O. (2020). Classification Of Terry Products Made Of Natural Fiber. *The American Journal of Engineering and Technology*, *2*(11), 133-141.

2. Atambayev, D. D. O. (2020). Analysis Of Fibrous Wastes Generated During Spinning Of Cotton Fiber In The Re-Spinning System. *The American Journal of Engineering and Technology*, *2*(09), 86-90.

3. Kosimov, A. A., Bakhriddinova, S. F. K., & Abdulazizov, S. A. O. (2020). Classification Of Terry Products Made Of Natural Fiber. *The American Journal of Engineering and Technology*, *2*(11), 133-141.

4. Atambaev, D. D., & Olimjonov, D. K. (2020). Production of arkok (enlama) hair wool fabrics on modern flexible fabric knitting machine in textile. *ACADEMICIA: An International Multidisciplinary Research Journal*, *10*(11), 2294-2299.

5. Bobojonov,H.T.; Yusupov,A.A.; Yuldashev,J.Q.; Sadikov, M.R.; (2020) Influence of deformation properties of yarn on the quality of knitted fabric. Test Engineering and Management. May-June 2020 Pages 29502-29513.

6. Kosimov, A. A., Bakhriddinova, S. F. K., & Abdulazizov, S. A. O. (2020). Classification Of Terry Products Made Of Natural Fiber. *The American Journal of Engineering and Technology*, *2*(11), 133-141.

7. Bobojanov, H. T., Jumaniyazov, J. Q., Gofurov, Q. G., & Gofurov, J. Q. (2019). The relationship between the properties of yarn and knitted. *Textile Journal of Uzbekistan*, *1*(1), 7.

8. Yuldashev, J. Q., & Bobojanov, H. T. (2020). Study Of The Influence Of The Parameters Of The Sampling Zone On The Condition Of The Capture Of Fibers By The Drum Teeth. *The American Journal of Engineering and Technology*, *2*(08), 75-78.

9. Sarimsakov, A. U., Ahmedov, B., & Abdullajanov, B. (2020). To Study Circling Of The Seed Roller At Ginning Process With Practical Method. *The American Journal of Engineering and Technology*, *2*(11), 142-148.

10. Sarimsakov, K. Artikova, R. Muradov. (2020). The effect of the speed of the seed roller on the efficiency of the gin machine // tadqiqot.uz, 4(3), 36-43. http://dx.doi.org/10.26739/2181-9696-2020-4-7

11. Yuldashev, J. Q., & Bobojanov, H. T. (2020). Study Of The Influence Of The Parameters Of The Sampling Zone On The Condition Of The Capture Of Fibers By The Drum Teeth. *The American Journal of Engineering and Technology*, *2*(08), 75-78.