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: 10.5958/2249-7137.2021.00596.6

INFLUENCE OF TECHNOLOGICAL PARAMETERS OF THE DRAFTING SYSTEMS OF THE RING SPINNING MACHINE ON YARN QUALITY

Bobojanov Husankhon Tokhirovich*; Yusupov Alijan Abdujabbar ugli; Muhiddinov Abdurahmon Abdusamad ugli*****

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

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

***Master's Degree Student,
Namangan Institute of Engineering and Technology,
Namangan, UZBEKISTAN
Email id: muhiddinovabdurahmon1@mail.com

ABSTRACT

In this article, its friction resistance is tested in determining the quality index of the tissues. The properties of friction resistance, length, linear stiffness, torsion and strength, deformation properties of the fibre in its composition were studied. In this paper, the friction resistance of tissue is tested in determining its quality index. The properties of friction resistance, length, linear stiffness, torsion and strength, deformation properties of the fibre in its composition were studied. It has also been studied that fibres are formed based on a spinning system and that their deformation properties increase or decrease when the fabric is resistant to abrasion. Also in the research work was prepared yarn (Compact melange yarn (RoCos)) with high deformation properties. The study found that rubber tissue has a 10% higher abrasion resistance than tissue made from ordinary melange yarn. Experiments have shown that the tensile strength of compact

(RoCos) melange yarn made of ordinary melange yarn is 19.2N higher than the length of the fabric made of ordinary melange yarn.

KEYWORDS: *Yarn, Spinning Machine, Deformation, Quality, Compact Yarn, Spun, Unevenness, Elongation, Melange.*

REFERENCES

1. Ahmadjanovich, K. S., Lolashbayevich, M. S., & Tursunbayevich, Y. A. (2020). Study Of Fiber Movement Outside The Crater Of Pnevmomechanical Spinning Machine. *Solid State Technology*, *63*(6), 3460-3466.
2. Korabayev, S. A., Mardonovich, M. B., Lolashbayevich, M. S., & Xaydarovich, M. U. (2019). Determination of the Law of Motion of the Yarn in the Spin Intensifier. *Engineering*, *11*(5), 300-306.
3. SH.Komilov, A.Sarimsakov, R. Muradov (2020). Jin mashinasida kalta tolalar chiqishini kamaytirish va chigitnining shikastlanishini oldini olish yo'llari. // Trends in the development of light industry in the Republic of Uzbekistan: problems, analysis and solutions. - 2020. - No. 1. - S. 88-93. https: // doi: 10.47100 / conference_textile / S4_12
4. Ataxanov Avazbek Komiljanovich, Korabayev Sherzod Ahmadjonovich. (2020). Influence of the improved design of the twist intensifier on the mechanical properties of the yarn. *International Journal of Future Generation Communication and Networking*. Vol. 13 No. 4.
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. 83 (8). pp. 29502-29513.
6. Erkinov, Z., Zhumaniyazov, K., Parpiev, Kh., Fayzullaev, Sh., & Zhamalov, B. (2016). Influence of the number of folds of single threads, produced by different spinning systems, on the quality of the twisted thread. In Modeling in Engineering and Economics (pp. 201-203).
7. Jamshid, Y., Akbarjon, U., & Olimjon, S. (2020). Dynamics of Interaction of a Single Fiber with a Headset of a Sampling Drum. *Engineering*, *12*(6), 347-355.
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., Kurbonov, D. M., & Khalikov, S. S. (2019). Study of the crucible of rotation of raw materials with a practical way. *Economy and society*, (12), 67.
10. Turdialiyevich, T. S., & Khabibulla, P. (2020). The Influence Of Top Flat Speed Of Carding Mashine On The Sliver And Yarn Quality. *European Journal of Molecular & Clinical Medicine*, *7*(7), 789-797.
11. Jamshid, Y., Akbarjon, U., & Olimjon, S. (2020). Dynamics of Interaction of a Single Fiber with a Headset of a Sampling Drum. *Engineering*, *12*(6), 347-355.
12. Bobojanov, H. T., Gofurov, Q. G., Jumaniyazov, Q. J., & Raxmatulinov, F. F. (2019). New ways to measure yarn deformation. *Textile Journal of Uzbekistan*, *2*(1), 63-68.

13. 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.

14. 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.

15. Erkinov, Z., Abduvaliyev, D., Izatillya, M., & Qorabayev, S. (2020). Theoretical studies on the definition of the law of motion and the equilibrium provision of the ball regulating the uniform distribution of the torque along the yarn. *Academicia: An International Multidisciplinary Research Journal*, *10*(11), 2338-2347.

16. Sarimsakov, A. U., & Ergashev, J. F. (2020). Modeling the motion of a mixture with weighty particles in a stationary flow of liquid. *SAARJ Journal on Banking & Insurance Research*, *9*(6), 20-24.

17. Ergashev, J., Kayumov, J., Ismatullaev, N., & Parpiev, U. (2020). Theoretical Basis for Calculating the Determination of the Optimal Angle of Rotation of the Slit and Air Velocity. International Journal of Advanced Science and Technology Vol. 29, No. 03, pp. 12776 – 12784.