

TO STUDY THE EFFECT OF COTTON HEAT ON CLEANING EFFICIENCY

Erkin Berdanov*; Azimdjan Parpiev; Timur Tuychiev*****

*Lecturer,

Tashkent Institute of Textile and Light Industry,
Tashkent, UZBEKISTAN

Email id: berdanoverkin1985@gmail.com

DOI: 10.5958/2249-7137.2022.00481.5

ABSTRACT

The article presents the results of the research carried out to determine the effect of change in cotton heat on cleaning efficiency. When the temperature of Cotton transferred to the cleaning process increased from 5 0S to 47 0S, the cleaning efficiency of the equipment was determined to rise from 13,13% to 15,52 %.

KEYWORDS: *Cotton, Cleaning Machine, Pile Drum, Dirt, Temperature.*

REFERENCE

1. Madumarov I.D., Ruzmetov R.I., Gapparova M.A., Tuychiyev T.O., Changing the Cotton Fiber Temperature // International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-9 Issue-3, February, 2020 – P.974-977.
2. Madumarov I.D. Paxtani issiqqlik-namlik holatini muqobillashtirish va bir tekis ta'minlash asosida tozalash jarayonining samaradorligini oshirish // Texnika fanlari doktori (Doctor of Science) ilmiy darajasini olish uchun tayyorlangan dissertatsiya, Toshkent, 2019 y. 200-b.
3. Tuychiyev T.O. Paxtani tozalash texnologik jarayoniga tayyorlash va ta'minlagichni takomillashtirgan holda tozalash mashinasi samaradorligini oshirish // Texnika fanlari bo'yicha falsafa doktori (Doctor of Philosophy) ilmiy darajasini olish uchun tayyorlangan dissertatsiya, Toshkent, 2018 y. 120-b.
4. Tuychiev T.O., Madumarov I.D., Mardonov B.M. Investigation of the process of release of dirt impurities in the zone of interaction of it with a netlike surface // European Science Review. Vienna, - 2017. - №9-10 (279). -P.130-133.
5. Parpiev A.P., Mardonov B.M., Madumarov I.D., Tuychiev T.O. Modeling the movement of the mass of raw cotton in the feeder zone // Problems of textiles. - 2013, No. 1. - From 81-86.
6. Tuychiev T.O., Madumarov I.D., Parpiev A.P. Influence of types of feed rollers on the efficiency of cleaning cotton // Textile Problems. - 2013. - №2, -p. 101-104.
7. Tuychiev T.O., Madumarov I.D., Parpiev A.P. Influence of the geometric dimensions of the storage shaft on the efficiency of cotton cleaning // Problems of textiles. - 2013. №4. -B 12-16.

8. Madumarov I.D., Mardonov B.M., Tuychiev T.O. Investigation of the motion of the raw cotton flying in the zone of its interaction with the mesh surface // Problems of textiles. - 2017., no. 3. - p.21-26.
9. Tuychiev T.O., Madumarov I.D., Gapparova M.A. The influence of the distance between the feed rollers and the spike drum on the efficiency of cotton cleaning // Textile Problems. Tashkent - 2017, -№4. p.16-20.
10. Lugachev A.E. Investigation of the main elements of raw cotton cleaners to improve the quality indicators of the process: Diss ... Candidate of Technical Sciences: - Kostrama, 1981. - 180 p.
11. Patent UZ. FAP 01495 .. raw cotton cleaner / Tuychiev T.O., Parpiev A.P., Khodzhiev M.T., Lugachev A.E., Madumarov I.D. // Bulletin No. 1, 31.01.2020.
12. Ruzmetov, R.I., Madumarov, I.D., Mardonov, B.M., Tuychiyev, T.O., Modeling of heat exchange processes between raw cotton and coolant in a screw drum. European science review, Vienna, Prague, (2018), Vollume **5-6**, - P.335-338.
13. Wang Hua, Salimov, A.M., Tuychiyev, T.O., Madjidov, Sh.A. Technology and Equipment for primary Cotton Processing. Textbook. Dounghua, China, - (2019), P.184. ISBN 978-7-5669-1576-4.
14. Parpiev, A., Sharakhmedova, M., Parpiev, A. Analysis of deformation of Cotton in Technological processes. International Journal of Emerging Trends in Engineering Research, **8**(9), September (2020), 6618 – 6622