INVESTIGATIONS INTO SEQUENTIAL APPLICATION OF CATIONIC FIXING AGENTS AND TANNIN TO IMPROVE FASTNESS PROPERTIES OF SULPHUR BLACK DYED COTTON FABRIC

Author(s): Quratulain Mohtashim¹, Muriel Rigout²

Volume: XIV

No: 4

Pages: 93-103

Date: September 2017

Abstract:
In this study, a two-stage aftertreatment using a cationic fixing agent and tannin was found to improve the wash fastness of sulphur black 1 dyed cotton fabric to ISO 105 C09 washing. The light and rub fastness of sulphur black 1 dyed cotton fabric remained the same for untreated and aftertreated dyeings. The improved wash fastness was due to the formation of large molecular size, low solubility, cation-tannin complexes within the periphery of the dyed and aftertreated fabric.

For full paper, contact:
Prof Muhammad Masood Rafi
Editor-in-Chief, NED University Journal of Research
Ph: +92 (21) 99261261-8 Ext: 2413; Fax: +92 (21) 99261255
Email: NED-Journal@neduet.edu.pk
Website: http://www.neduet.edu.pk/NED-Journal

¹ Assistant Professor, Department of Textile Engineering, NED University of Engineering and Technology, Pakistan, Ph. +9221-99261261-8x2365, Fax: +9221-99261255, Email: qurat@neduet.edu.pk.
² Associate Professor, School of Design, University of Leeds, UK, Ph. +44(0)113-343 3710, Fax: +44 (0)113-34 33704, Email: M.L.Rigout@leeds.ac.uk.