



INFLUENCE OF RING TRAVELLER ON YARN QUALITY ASSESSMENT OF FLAX/COTTON BLEND

LAWAL, A. S.^{1*} AND ANANDJIWALA, R. D.²

¹Department of Textile Science and Technology,

Ahmadu Bello University, Zaria, Nigeria

²Council For Scientific And Industrial Research, Port Elizabeth,

South Africa and Department Of Textile Science,

Nelson Mandela Metropolitan University, Port Elizabeth, South Africa

ABSTRACT

The blending of flax/cotton fibres (10/90%) was carried out on the Trutzshler Multi-Mixer MCM with 6 trunks. The blended material was processed into roving hank of 0.6 ktex. The spinning of roving into yarn was done on double sided Zinser 319 ring spinning machine using five different sizes of ring travellers. The spun yarns (39 tex) were analysed in order to determine their yarn quality such as imperfections, tenacity, count, twist and hairiness. The experimental results obtained indicate that yarn tenacity, hairiness and imperfections are the major properties that were fully affected while count and twist were fairly affected due to variation in the size of travellers.

Keywords: Cotton, flax, spindle, spun-yarns, traveler

***Correspondence:** abuslawal@yahoo.com

How to cite this article:

Lawal, A. S. and Anandjiwala, R. D. (2011). Influence of ring traveller on yarn quality assessment of flax/cotton blend. *Nigerian Journal of Scientific Research*, 9 &10: 136-139.