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FACULTY OF INDUSTRIAL TECHNOLOGY

DEPARTMENT OF TEXTILE TECHNOLOGY

**The impact of Size Lubrication on the Physico-Mechanical
Properties and Weaving Performance of Ring Spun Yarn**


Vimbainashe Kuyelukana NNO03 1098A

Supervised by Dr L Nkhwane & Mr D. Moyo

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Abstract

Seven 50tex ring spun yarn samples were sized with sizing mixtures that differed in the type and amount of lubricant. The breaking force, elongation at break, abrasion resistance and weaving performance, before and after sizing, for the 7 samples of sized yarn samples were examined. The measured results were compared. An assessment of size lubrication effectiveness based on the differences in the values of breaking force, breaking elongation, abrasion resistance and weaving performance is given. The results gave discernable data which revealed well the aims and objectives of this study. The analysis proved that size lubrication has a detrimental effect on the properties and weaving performance of the warp yarn.