

which show that, according to Advanced Fibre Information System (AFIS) single fiber length tests, the fibers from automatically dismantled ring-spun cotton yarns are very similar in their properties to those dismantled by hand (manually). It was also found that, at a speed of 2 m/min, the yarn dismantler functioned very well, enabling the length of cotton yarn required for subsequent AFIS testing to be dismantled within an acceptable time of less than 10 minutes, with excellent reproducibility of results and without changing the fiber length properties. According to the test results obtained here, neither steaming the dismantled fiber strand nor the spinning draft appeared to affect the dismantled fiber length significantly, or in a consistent manner.

Keywords

Author Keywords: Yarn dismantler; cotton; fiber length; Advanced Fibre Information System tests

Author Information

Reprint Address: Fassihi, A (reprint author)

➡ Durban Univ Technol, Dept Clothing & Text Studies, POB 1334, ZA-4000 Durban, South Africa.

Addresses:

- + [1] Durban Univ Technol, ZA-4000 Durban, South Africa
- + [2] Nelson Mandela Metropolitan Univ, Port Elizabeth, South Africa
- + [3] CSIR, Pretoria, South Africa

E-mail Addresses: afassihi@dut.ac.za

Publisher

SAGE PUBLICATIONS LTD, 1 OLIVERS YARD, 55 CITY ROAD, LONDON EC1Y 1SP, ENGLAND

Categories / Classification

Research Areas: Materials Science

Web of Science Categories: Materials Science, Textiles

0 in SciELO Citation Index

This record is from: Web of Science[™] Core Collection

Suggest a correction

If you would like to improve the quality of the data in this record, please suggest a correction.

Document Information

Document Type: Article Language: English Accession Number: WOS:000338014700009

ISSN: 0040-5175

eISSN: 1746-7748

Journal Information

Impact Factor: Journal Citation Reports®

Other Information

IDS Number: AJ9GC

Cited References in Web of Science Core Collection: 4

Times Cited in Web of Science Core Collection: 0

1 of 1

© 2014 THOMSON REUTERS TERMS OF USE PRIVACY POLICY FEEDBACK