



THE ROLE OF FIBER FINISH ON DRAFTING BEHAVIOUR

W. Oxenham¹, C. Iype², Y.M. Xu²

¹College of Textiles, N.C. State University, Raleigh, USA

²School of Textiles, University of Leeds, Leeds, UK

ABSTRACT

The general behavior of slivers during drawing is simulated by means of a faller device mounted on an Instron Tensile Tester. The load generated during drafting is measured and the shape of load displacement curves is critically analyzed. The differences between lubricated and non-lubricated slivers tested at different speeds are presented, along with an indication of the influence of the number of active fallers. It is shown that the peak drawing force could be used as a possible criterion in judging the effects of lubricants on drafting.

KEYWORDS: Drafting Force, Fiber Finish, Pin Drafting, Gillbox
