

Effect of Accelerated Ageing on Paper from Cold Soda Pulp of Jute

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ABSTRACT

Jute can be used as an alternative raw material if we can produce permanent paper or archival paper from jute. To achieve this we have to assess the age or shelf life of jute based paper. The present study was carried out to study the effect of accelerated ageing by the method developed by Preservation Research & Testing Division, Library of Congress, Washington DC, USA on three different types of paper made from cold soda pulp of jute i.e., bleached paper, unbleached paper and dyed paper. The samples were evaluated for their optical and physical properties. It was observed that the bleached cold soda jute paper is highly susceptible to accelerated ageing, whereas, unbleached cold soda jute paper was less susceptible and dyed paper of bleached cold soda jute pulp was the least susceptible to accelerated ageing.

Key words: Jute fibre, cold soda pulp, hydrogen peroxide bleaching, direct dye, accelerated ageing, resistance to ageing, optical properties, strength properties