

Effect of Accelerated Aging on Ambient Temperature Bleached & Dyed Paper from Cold Soda Pulp of Jute

Roy A K and Chattopadhyay S N

ABSTRACT

The increasing demand of handmade paper has left a big gap between the projected demand of 28000 tons in 2010 and the present production of 15000 tons. This gap can be reduced by introducing alternative ligno-cellulosic raw materials like jute and its byproducts. The small scale handmade paper units use cheap and user friendly technology and generally avoid heating system. With this in view NIRJAFI has developed a simple method of ambient temperature bleaching by hydrogen peroxide and dyeing by cold brand reactive dye of cold soda jute pulp for making white and coloured paper. These papers were subjected to accelerated ageing, which showed that ambient temperature bleached paper is more resistant to ageing than paper made from conventional method of bleaching. The fold number of ambient temperature bleached jute paper is much higher than the conventional bleached jute paper. The same trend was observed in case of the pulp bleached by ambient temperature process and dyed with cold brand reactive dye Procion Yellow M4G.

Key words: Accelerated ageing, Ambient temperature, Cold brand reactive dye, Cold soda process, Fold number, Hydrogen peroxide bleaching, jute fibre.