

A Comparative Study Of Eucalyptus Hybrid Pulp Properties For Conventional Batch Cooking And Superbatch™ Cooking

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ABSTRACT

The differences in the process of Kraft pulping in conventional batch digester and super batch digester was studied and presented. Conventional batch cooking is followed by CEPHH bleaching sequence and superbatch cooking is followed by oxygen delignification and D_{HR} (EOP) D_1 bleaching sequence. Cooking parameters for both digesters was analysed and presented. The proximate analysis for the wood was carried out. The pulp was collected from each stage and the hand sheets were formed for 60 gsm. The pulp hand sheets was analysed for strength properties and optical properties according to the TAPPI test methods T220 sp-01. The strength properties of the pulp for both cooking were compared and presented. The formation and presence of Hexenuronic acid in conventional cooking and superbatch cooking was also studied. Hexenuronic acid presence was determined using TAPPI test method T282 pm-07 and the result was presented.

Key words: conventional cooking, superbatch cooking, Hexenuronic acid