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NEW APPROACH TO USE OF KENAF FOR PAPERBOARD PRODUCTION

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Abstract

This study sought to determine the suitability of fractionation and consistency (separation of long fiber and short fiber, beating long fiber, and remixing freeness) as a new approach to use of kenaf whole stem pulp for paperboard production. A laboratory Bauer-McNett Classifier with screen 18 mesh was used to separate the fibers of the unbeaten kenaf whole stem soda-anthraquinone high kappa pulps. In comparison, the initial unbeaten pulps were beaten in the PFI mill to the target consistency (CSF). Results of our patented method showed that the fractionation provided a good opportunity to beat the long fiber portion at higher PFI revolution and less fibrillation, significantly improving all paper properties of kenaf pulps.