



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**The Effect of Bleaching Conditions on the Physical and Optical Properties  
During the Bleaching of CTMP with Peroxide**

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**Abstract:** In order to determine the effect of bleaching conditions on the physical and optical properties of pulps during the bleaching of CTMP with  $H_2O_2$ , 48 bleaching trials were carried out. After the analysis of the data obtained, the optimum bleaching conditions were as follows:  $H_2O_2$  ratio 2.5-3%,  $Na_2SiO_3$  ratio 3%, NaOH ratio 3%, NaOH/ $H_2O_2$  ratio 0.75,  $MgSO_4$  rate 0.5%, reaction temperature 70°C, EDTA rate 0.5%, reaction time 80 minutes and concentration 16%. Brightness, breaking length, burst and tear index of CTMP bleached with  $H_2O_2$  were found to be 51.42%, 18.03%, 92.50% and 13.20% respectively, higher than those of unbleached CTMP.

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