
Effect of thermal oxidation on the properties of chemical refined paper pulp

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This research aims to study the effect of treating refined paper pulp (high α -cellulose) with different concentrations of sodium hydroxide in presence of 0.5 % zinc chloride on aging of treated paper pulp in order to produce more resisting paper to aging to be used in documents that should virtually have the longest life possible. For this purpose bleached kraft wood pulp (American origin) that contain 87 % α -cellulose, 9.5 % pentosan, 0.3 % ash,