

**EFFECT OF VARIOUS PERCENTAGE OF ACTIVE ALKALI ON PAPER
PROPERTIES FROM KRAFT PULPING**

BY

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**THE EFFECT OF VARIOUS PERCENTAGE OF ACTIVE ALKALI WILL
EFFECT THE PROPERTIES OF PAPER BY USING KRAFT PULPING**

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ABSTRACT

The research was done on the Kelempayan species from Rubiaceae to study about the paper properties and suitability of using chemical pulp. The method that has been used to produce the paper is by Kraft pulping with different percentages of active alkali. The percentage that had been use is 18%, 20%, and 22% by using Rotary Digester. The testing was done on the paper using TAPPI Standard to determine the paper properties either their increase or decrease. After the testing had been done, the yield that had been produce is decreasing for 10.225%. The freeness result also decrease for 4.145%. The tearing and bulk test decrease 15.41% and 8.73%. While, the result of tensile and breaking length increases about 5.7% both. Beside that, the Folding Endurance and the Bursting Index also increase about 29.4% and 3.22% each. Then, we can say that the different percentages of active alkali affect the properties of paper.