

# An Experience with Adaption of Laboratory Results to Optimize AKD Sizing Parameters on a Paper Machine

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## **ABSTRACT**

This paper presents the results of a plant study undertaken to convert a rosin-PAC alkaline sizing system to alkyl ketene dimer (AKD) sizing system on a paper machine producing a high-quality offset printing paper. The doses of AKD and other chemicals were first optimized experimentally in the laboratory and later fine-tuned on the paper machine. The results show that at the current prices of various sizing chemicals, the AKD sizing appears to be more economical than the rosin based neutral/alkaline sizing.

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