

# Efficient Use of Performance Enhancing Chemicals in Present Scenario

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## ABSTRACT

Twenty years ago almost every fine paper maker believed paper had to be made in an acid environment. Only a few specialty products, most tissue, some food board, and corrugating medium were made under alkaline conditions. During past decade many improved chemical formulations were introduced in the market by various chemical manufacturers with better understanding of problems being faced by paper makers globally. This technology advancement not only helped to reduce the sizing cost but improved the total wet end chemistry. Many polymers, Additives, Enzymes, Biocides and Deposit control programmes were tried alone or in combination as per the requirement, which resulted in improved paper quality and smooth run ability of the paper machine. Sizing cost reduced substantially when system switched over from acidic to neutral and finally to alkaline condition.

**Keyword:** Alkaline paper, AKD sizing, ASA, size reversion, retention, biocide, deposit.