



Exponential Improvement in Microparticle Performance



# POSITEK 9000

### **Exponential Improvement in Microparticle Performance**

### Nalco Water's POSITEK 4G

9000 is a colloidal silica dispersion specifically formulated to allow paper makers to attain important **On-Machine-Efficiency (OME), Sheet Quality** and **gains** by enhancing retention and drainage in a costcompetitive manner.

This high-performance Microparticle functions as one component of a comprehensive POSITEK papermaking performance package that could be preferably fed through PARETO Mixing Technology and can be translated into the following potential benefits:

### **Optimized Costs**

- Increased filler loadings and the subsequent reduction in fiber costs due to improved small particle retention in both acid and alkaline systems
- Reduced usage of wet-end additives such as wet strength, clay, titanium dioxide, dry strength, size, starch, defoamers and dyes due to improved first pass retention

## Increased OME and Production Rates

 Improved runnability and wet-end stability by avoiding excess fillers and fines recirculating in the wetend system that generates deposits which lead to breaks and downtime

### **Improved Sheet Quality**

- As a result of reduced twosidedness, improved formation and increased strength
- Optical and printing properties improved through more uniform distribution of filler and fines within the sheet

### **Energy Savings**

 Improved water removal, due to reduced headbox and tray solids, which result in more efficient sheet pressing and drying

### Environment

- An efficient retention program offers a gradually cleaner system and a positive impact in terms of COD/ BOD reduction of the backwater
- Reduced sewer losses and lower effluent treatment costs as a result of improved first-pass fiber and filler retention
- Environmental friendliness, no contribution to VOC

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