



Case History

AriKleen felt wash increases felt life at recycled paperboard mill

After changing recycled furnish to include newsprint, a paperboard mill began experiencing significant difficulty in keeping its press felts clean and open. Speed on the machine was impacted and felt life decreased. Picking and sheet breaks were more common and downtime increased. The more frequent felt changes increased manufacturing costs and further increased downtime. The incumbent supplier was asked for help. Their response time was slow and solutions were not forthcoming. The mill personnel actually took up the charge and asked to use a different chemistry. The current chemical delivery system could not accommodate the new chemistry and no changes were offered.

Aries was asked to help improve machine runnability, increase felt life, and provide a chemical delivery system that could safely and accurately dispense multiple products to address the new soil matrix that was impeding drainage of the felts. Aries performed a series of felt permeability scans, felt analysis and cleaning studies to understand the paper machine's problems. Aries' analysis and experience developing comprehensive paper machine cleaning programs found several interrelated problems. Based upon the problems' sources Aries recommended an improved cleaning program.

Aries recommended an "on the fly" batch wash program utilizing two different AriKleen felt cleaners specifically designed for the complex deposits now seen by the felts. Both alkaline and acid AriKleen felt cleaners were designed to remove deposits caused by AKD, wet strength, dry strengths, clay, calcium carbonate and other recycled fiber contaminants. Both cleaners are FDA compliant. These specially designed materials eliminated picking and downtime due to felt contamination, and increased the felt life from 3-4 weeks to 6-7 weeks while keeping up machine speed.



PLC based feed system

Aries provided a PLC based cleaner feed system that controlled both cleaner applications. The cleaner feed system allowed plant personnel to adjust the cleaning program to optimize performance.

CSPapermachineCleaner0417

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