

RECORDED BENEFITS

- Significantly reduced PDMS carryover
- Eliminated off-spec paper attributed to silicone related dirt
- Reduced annual program costs by \$600,000

Dual Product Approach Delivers Significant Pulp Quality Improvements

Advantage™ BN3398 and BN3369 Defoaming Agents

Customer Challenge

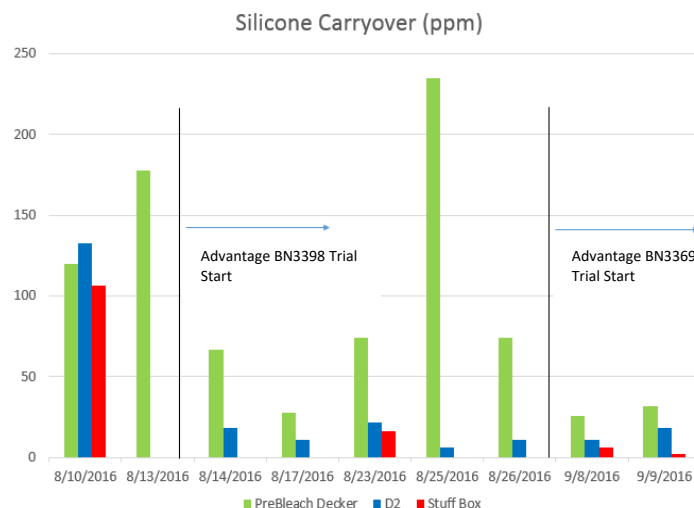
A Southern U.S. swing pulp mill producing 900 TPD of bleached HWD and SWD that feeds UFS paper machines was running a dual-component program comprised of a silicone concentrate defoamer and an oil-based defoamer on their brown stock washer line. The mill was seeing significant silicone carryover, which was resulting in deposition and sheet quality issues due to silicone dirt outbreaks on the paper machines.

Recommended Solution

Solenis proposed replacing the incumbent program with a dual-component program comprised of two silicone emulsion defoamers. The trial began with Advantage™ BN3398 defoaming agent replacing the oil-based defoamer and one silicone concentrate feed point, which significantly reduced PDMS carryover to the paper machines. Advantage™ BN3369 defoaming agent was then used to replace the remaining silicone concentrate.

Results Achieved

PDMS carryover from to the paper machines was reduced from more than 100 ppm to less than 10 ppm. This resulted in significant quality improvements due to reduced dirt in the final product and reduction in off quality production. The estimated annual program cost savings for the mill is more than \$600,000 with additional savings from elimination of off-spec paper far exceeding the program savings.



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