



Case History

Defoamer Solves a Multitude of Problems at Papermill

After a significant raw material change a specialty paper mill making a variety of industrial grades struggled with excessive foam in its white water and wastewater systems. The excessive foam contributed to safety and environmental issues. At times, excessive foam would spill onto the floor creating a slippery and unsafe condition. On certain grades, excessive foam generation carried through into the wastewater treatment lagoons. At times this foam would blow off the property which led to complaints.

Aries Chemical was asked to provide an effective yet economical solution. Aries surveyed the system and then performed a series of onsite laboratory tests to determine the optimum defoamer. The lab performance testing resulted in selecting a unique high strength defoamer for a mill trial.

The defoamer trial at the mill proved to be successful as the product controlled the foam in the paper machine white water systems. The successful performance of the Aries defoamer in the mill helped solve their safety and environmental problems. The good performance of the defoamer in the paper machine system carried through the process and effectively dissipated the wastewater lagoon's foam. This improved control is illustrated in the pictures below. An additional benefit was an overall reduction in defoamer costs of approximately 20%. The mill converted to the Aries Defoamer and continues to run successfully without the previous problems. The Aries defoamer is FDA compliant for paper that contacts food.



Wastewater Lagoon Before Aries Defoamer



Wastewater Lagoon With Aries Defoamer

Defoamer Change Benefits:

- Reduced Defoamer costs by 20 %
- Eliminated wastewater foam problem
- Safer conditions around paper machine
- Paper machine area foam free

For further product and technical assistance, contact your Aries Chemical Representative or the Beaver Falls office @ 315 346 – 1489 or email: aries@arieschem.com.



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