



Aluminum Reclaim

Southeastern USA

Initial Conditions

In 1993, this US based Aluminum plant needed to address the problem of nuisance dust escaping from the pot line reclaim area and causing emissions violations. An International OEM designed a 33,000 ACFM pulse jet baghouse to ventilate this area. The mandate was to clean up the visual nuisance dust and improve overall plant emissions. Given the light dust load and 0.002 gr/DSCF limit for this reclaim site, the OEM chose to install 16 oz. polyester with expanded PTFE membrane. A local filterbag manufacturer supplied Tetratex® high standard efficiency membrane thermobonded to Polyester Needlefelt.

Conditions

*Design Flow	<u>33,000 ACFM</u>	*Air to Cloth Ratio	<u>3.5 : 1</u>
*Inlet Grain Loading	<u>4 gr/ACF</u>	* Baghouse Type	<u>Pulse Jet</u>
*Bag Length	<u>100 inches</u>	*Bag Diameter	<u>6 inches</u>

Success Story

The Tetratex® membrane filter bags have offered superior emissions control while eliminating the visual nuisance dust. Tetratex® membrane preserves the filter substrate's integrity, allowing increased airflow at a lower pressure drop. This plant has seen limited down time due to maintenance along with an increase in production.

Summary

Tetratex® is the premier filter media that can be the answer to a vast array of pollution control difficulties. Expanded PTFE membrane provides many surface filtration benefits making it the Best Available Technology of filtration available in the market today.