

Dryer pulse jet baghouse at chemical manufacturer resolved high air to cloth ratio and bag abrasion resulting in significant savings

Challenge

The pulse jet baghouse is venting a dryer using high temperature bags with cages. The customer had problems with high air to cloth ratio of 5:1 and bag abrasion that required costly constant maintenance and impeded production with the frequent collectors shutdowns. All filter bags were replaced every 5 months and spot changed 3-4 times per month.

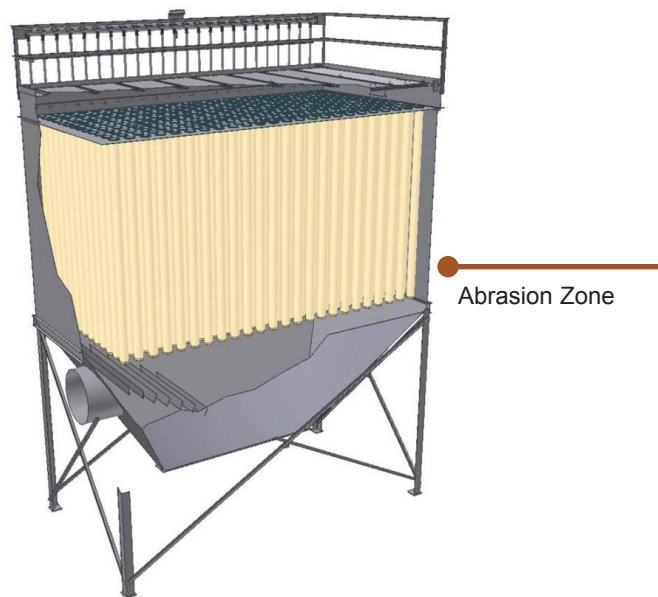
Solution

BHA® ThermoPleats® with BHA Preveil® ePTFE membrane were installed. BHA ThermoPleats are shorter than the bags & cages being used bringing the filters up out of the abrasion zone. This eliminates the need to replace the cage as well since Pleated filter do not require a cage.

Result

- Zero shut downs, significantly reducing labor and replacement filter costs while production continued without frequent unplanned baghouse maintenance interruptions.
- Filter area increased from 8000 ft² to 21,000 ft².
- Almost 6 times the original filter life of bags & cages, the pleated filters have been in operation for 1.5 years without any spot changes.
- The air to cloth ratio dropped to 1.5 to 1, and increased airflow through the baghouse.
- Bottom bag abrasion is no longer a problem.

Common Problem — Bottom Bag Abrasion



Pleated Filter Solution

