

Case Study

BHA® PulsePleat®

US rubber and plastics producer transferring raw materials with pneumatic conveying solved short filter life and excessive talc particulate bleedthrough in their baghouse.

Challenge:

Particulate from talc used in production was blinding the polyester felt bags in the bottom-load Flex-Kleen™ pulse-jet baghouse venting material handling systems. The fine particulate caused abrasion and bleedthrough during pulsing. Blinded filters were causing high air-to-cloth ratios, and premature bag failure required bag changeout every six months.

Solution:

Parker Hannifin recommended replacing the traditional bags and cages with BHA PulsePleat filter elements. The tight pore structure and smooth surface of the spunbond polyester filter medium used in BHA PulsePleat filters helped prevent penetration by fine particulate and provided better dustcake release during cleaning.

Results:

- The pleated filter elements provided substantially more filter area in the same physical space for reduced air-to-cloth ratio and increased airflow through the baghouse.
- Particulate bleedthrough no longer occurred.
- Filter life was extended to as much as three years, resulting in significant maintenance and filter replacement savings.

Comparison of filter surface area and airflow between BHA PulsePleat and traditional filter bags (all 6.25" diameter)

