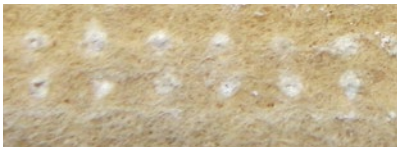
GORE® Filtration Products

Case history

GORE® Low Emission Filter Bags – Titanium Dioxide

The Challenge

GORE® Acid Resistant Aramid Felt Filter Bags have been successfully used for many years in dryer baghouses across a broad range of titanium dioxide products. A new line of grades with a combination of smaller particle sizes and increased flow ability were penetrating through the stitch holes reducing product capture, increasing emissions, causing unplanned downtime and decreasing bag life.



TiO_2 particulate migration through unsealed stitch holes within 4 months of service.

The Solution

GORE® Low Emission Filter Bags were installed utilizing GORE™ Seam Tape to cover all of the stitched seams.

The Result

The emissions were eliminated increasing particulate capture efficiency and productivity. Filter bag life increased from 4 to 18 months.

GORE™ Seam Tape intact after 18 months of service.

No TiO_2 particulate migration through stitch holes of the seam taped filter bag after 18 months of service.

Data Box

Application:	Pulse Jet Dryer Bag House
Average particle size:	0.3 microns
Operating temperature:	160 °C
Typical Production Rate:	16–20 tons/hour
Typical ACR:	2.5 fpm
Pulse Pressure:	70–80 psi

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