



GORE® Filtration Products

Cement Industry

Case History 9

Kiln/Mill/Feed

OPTIMIZATION POTENTIAL

Plant retrofitted old ESP system to baghouse in 2002 in order to increase productivity, reliability, and emissions. Process required use of addition of soda ash in order to facilitate grate nodule formation, which affected pressure drop.

SOLUTION

Plant installed GORE® High Durability SUPERFLEX® Filter Bags in new Pulse Jet baghouse and fully optimized all system settings.

RESULT

First set of GORE® High Durability SUPERFLEX® Filter Bags installed in 2002 lasted 6 years. Plant installed second set of filters in 2008 and after 30 months, bags were still performing optimally with no emissions, bag failures, or any other problems.



Process Description:	Cement Kiln Exhaust
Collector Manufacturer:	Process Emissions Consultants
Design Airflow Rate:	245,000 am ³ /h (144,550 acfm)
Design Temperature:	140°C – 200°C (284°F – 392°F)
No. Bags/Collector:	468
Cleaning System:	Pulse Jet (intermediate pressure/ intermediate volume)
Air-to-Cloth Ratio:	1.5 m/min (4.92 ft/min)
Bag Material:	GORE® High Durability Filter Bag (GORE® SUPERFLEX™ Fabric, 630 g/m ² , 18.5 oz/yd ²)

FOR INDUSTRIAL USE ONLY. Not for use in food, drug, cosmetic or medical device manufacturing, processing, or packaging operations.

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