



GORE® Filtration Products

Cement Industry

Case History 10

Cement Kiln/Raw Mill

OPTIMIZATION POTENTIAL

Plant increased pre-heater fan capacity in order to increase productivity. The increased airflows resulted in higher pressure drop across the baghouse.

SOLUTION

A new set of GORE® High Durability Filter Bags made of acid-resistant fiberglass fabric were installed and all process settings were optimized.

RESULT

Since installation in 1997, filter lifetime is over 12 years and has exceeded performance expectations for both airflow and pressure drop.

- Kiln feed rates have increased by 4.3%
- Airflow has increased by 15%
- Pressure drop has decreased by 10.5%



Process Description:	Kiln/Raw Mill
Collector Manufacturer:	Thermax
Design Airflow Rate:	750,000 m ³ /hr (442,500 ft ³ /hr)
Design Temperature:	Max 260°C (500°F)
No. Bags/Compartment:	108
No. Bags/Collector:	1,728
Cleaning System:	Reverse Air
Air-to-Cloth Ratio:	0.7 – 0.8 m/min (2.29 – 2.62 ft/min)
Bag Material:	GORE® High Durability Filter Bag (Acid-resistant Fiberglass Fabric, 339 g/m ² , 10 oz/yd ²)

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