



# Gore™ Filtration Products

Chemicals Industry

Case history 13

## Calcium Hypochloride

### OPTIMIZATION POTENTIAL

Production process vented to a wet scrubber which was followed by a packed column. Excessive emissions from previously installed filters caused frequent clogging in packed column. This required system shutdown for cleaning, loss of production, and compromised recovery of dry saleable products.

### SOLUTION

Gore technical team performed extensive slip stream collector testing and recommended installation of new collector with GORE™ ePTFE membrane and ePTFE felt backing materials.



### RESULT

After installation of GORE™ all ePTFE bags and optimization of system setting by Gore technicians, filter emissions dropped to near zero for remainder of bag life. System downtime was eliminated and income from additional production increases paid for cost of optimization project. Filter life reached 8 years with near zero emissions and stable pressure drop of 800–1.000 Pa.



<b>Application:</b>	Calcium Hypochloride
<b>Process description:</b>	Flash dryer
<b>Plant capacity/production rate:</b>	n/a and confidential
<b>Gas flow rate:</b>	80.000 m <sup>3</sup> /h
<b>Operating temperature:</b>	82°C
<b>Total filter area:</b>	1.330 m <sup>2</sup>
<b>Emissions rate:</b>	< 2 mg/m <sup>3</sup>
<b>Differential pressure:</b>	800 – 1.000 Pa
<b>Bag life:</b>	8 years
<b>Filter material:</b>	GORE™ High Durability ePTFE Felt

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