



The capture of solid particles is one of the most frequent problems in the cement industry, due to the numerous emission sources it constitutes the main pollutant emitted to the atmosphere.

The SATAREM bag filters have a unique structure that improves the traditional design, with an "on-line" cleaning system, reducing the required filtering area and the amount of compressed air, allowing a lower electrical consumption.

SATAREM designed, manufactured and supplied a bag filter, with the following characteristics for this case:

No.	Characteristic	Value
1	Filtering area	36 m ²
2	Flow	2700 – 3500 m ³ /h
3	Filter ratio	1.27-1.63 m/min
4	Air consumption	3.5 cfm @ 90 psi
5	Emission of dust	< 50 mg/Nm ³
6	Dimension of bags	Φ152 mm x 2470mm
7	Quantity of bags	32

Within the scope SATAREM supplied a fan for the filter with the following specifications:

No.	Characteristic	Value
1	Flow	4000 m ² /h
2	Pressure	8.9" CA
3	Velocity	1800 rpm
4	Motor	Siemens 3 kW



Our client was interested in implementing a solution for the filtration of particulate material that was generated from the preparation of powder additives for concrete.

In summary, the advantages of our filter are:

1. High efficiency with low noise
2. Low consumption of compressed air
3. Change of sleeves without stopping the operation