



# ANTICIPATING FUTURE EMISSION LIMITS BY IMPROVING FGT PERFORMANCE

## THE CHALLENGE

A French cement plant with an annual production of 1.5 million metric tons was in compliance with the atmospheric emission limit values (ELVs) in European directive 2000/76/EC (10 mg of HCl/Nm<sup>3</sup>). Anticipating more stringent ELVs in the future that would affect its production process in terms of combustible raw materials, the operators contacted Lhoist for help in improving the performance of its flue gas treatment system.

## THE LHOIST SOLUTION

We proposed testing the injection of Sorbacal® powdered sorbents upstream of the electrostatic precipitator. Lhoist provided a Injecto-Matic big bag test facility to assess the following sorbents:

- › Sorbacal® H (standard hydrated lime)
- › Sorbacal® SP (a patented hydrated lime with a high specific surface area and pore volume)

Working with the client, we conducted tests over several weeks without affecting production. After evaluating the performance of each sorbent, Sorbacal® SP was found to be the best solution both technically and economically.

## THE BENEFITS

The client asked Lhoist to install a permanent Sorbacal® SP facility, from storage to injection. After helping to draw up the specifications, we coordinated the contact between the equipment supplier and the client's technical services. Within a few months the site launched the new facility. It was both environmentally advanced and adapted to the plant's installation constraints, with optimized Sorbacal® SP consumption.

Collaboration continued as Lhoist and the client explored further treatments for future regulations of micro-pollutants.

### OUR EXPERTS CLOSE TO YOU

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