

Reducing Baghouse Emissions for A Leading Chinese Steel Producer to Meet Environmental Protection Objectives

CHALLENGE

China produces more than half of all global steel and has a significant impact on emissions from steel production. Curbing air pollution from steel production has been a key governmental initiative through the Ministry of Environmental Protection and emissions standards for particulate matter have strengthened significantly.

A leading Chinese steel producer was utilizing round acrylic felt PAN filter bags in one of their EAF Baghouses. They were looking for an alternate baghouse solution that would reduce emissions from their current 15-20 mg/m³ and would extend bag lifetime and turned to our team for a robust filtration solution.



SOLUTION

Our technical team worked with the Chinese OEM to develop a solution that would address the PM performance and markedly contribute to emissions reductions in this critical infrastructure industry. We recommended the use of our SOLAFT® StarBag™.

With SOLAFT® StarBag™, the unique combination of bag and cage design significantly increases the available fabric filtering area in the same space as traditional round filter bags, without the need for changes to the original cell plate or cleaning systems.

SOLAFT® StarBag™ was successfully trialed onsite and the successful implementation in one of the EAF baghouses resulted in a 4-fold improvement in outlet emissions along with a 15% increase in energy savings as compared to their EAF baghouses not yet using our SOLAFT® StarBag™ solutions.

As a result of implementing SOLAFT® StarBag™, the Chinese steel producer achieved the following key benefits:

- 4x improvement in outlet emissions as compared to original acrylic felt PAN filter bags
- Particulate emissions have been maintained below 4mg/m³
- Filter bag lifetime has doubled with the implementation of the SOLAFT® StarBag™.

You can rely on the Micronics Engineered Filtration Group to be your proven single source for trusted Baghouse Solutions around the globe.