CASE HISTORY

SonicAire Fans Create Clean, Safe Environment for Chemical Manufacturer

Industrial Dust Control Fans for Chemical Manufacturing

"We use more than 10 different raw materials in our production, and they're all fine-dust powders," says the plant production manager for a leading U.S. chemical manufacturer and marketer. "With hundreds of bags of powder moving through here each week, dust can quickly accumulate."

As an industry leader in chemical manufacturing, the corporation is dedicated to delivering sustainable solutions. To enhance the cleanliness, safety and efficiency of their plastics additives unit, they turned to SonicAire.

The production manager explains, "We installed two SonicAire industrial dust control fans in our charging station room. Here, we feed 2000 to 3000 kg of powder into our machines each hour. With this constant movement, powder particles inevitably accumulate in overhead areas. And with 25' ceilings, this area was challenging to clean."

Before SonicAire Fans: Combustible Dust Accumulation and High Cost

Before the SonicAire fans transformed their process, the plant spent $30K each year on manual housekeeping for this space. "To reach the overhead beams, we hired a pressure washing company," the production manager reports. "They had to wash everything down manually, then use a vacuum truck to clear the floor. This required two to three days of down time on top of the cost of the service, and we had to do this three times each year to keep up with the dust accumulation."

After Fan Installation: Clean and Compliant

"All of our powder is white," he notes. "Before the dust control fans were installed, you could see where the powder accumulated. Now, you don't see any build-up. You can definitely see the difference."

This clean atmosphere ensures OSHA compliance. It also offers a better first impression for the visitors who come through the facility.

The manager says, "We follow the standard of 'dime-thickness' accumulation, and our powder dust quickly built up to this level. Without the SonicAire fans, the combustible dust could get to that point or above before we could get the contractor here to clean it. Now, with the fans functioning, they keep us within compliance."

OSHA Compliance

According to OSHA and NFPA standards, as little as 1/32 of an inch of dust accumulation can be hazardous.

Bonus Morale Boost

Not only have the SonicAire fans created a clean and compliant facility, the improved work environment has been a morale boost for employees. "We've gotten comments from operators," reports the production manager. "The fans reduce manual housekeeping and downtime, and any time you can take those components out of the picture, employees are happier."

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SonicAire®

"They Perform as Promised"

The corporate staff has been impressed with the performance of the SonicAire fans. "If other facilities have problems with dust accumulation in areas they can't easily access, I definitely recommend these fans," says the production manager.

A corporate project manager, adds, "We've had a big push for containment, and these fans have really helped. They keep the area a lot cleaner. After seeing how effective they are, we're currently evaluating adding SonicAire fans in other parts of our facility. It's been a really big benefit—a low-cost installation with a high return on investment."

The SonicAire Solution

As the global leader in dust control, SonicAire partners with chemical manufacturers to mitigate risk and create cleaner environments. Applying proprietary BarrierAire™ technology, SonicAire uses thermal-current control and high-velocity airflow to prevent dust accumulation. The fans offer an engineered, robotic solution to control overhead dust and maintain safe, compliant conditions.

Each industrial dust control fan system is customized to meet the needs of individual facilities. Contact SonicAire to receive a personally engineered solution and quote.

SonicAire®

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