

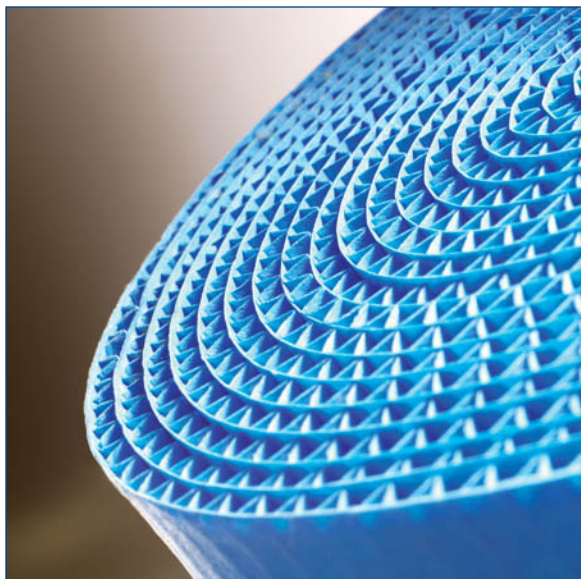


On-Site Test Blows Away Skepticism of Torit® PowerCore® Cleanability

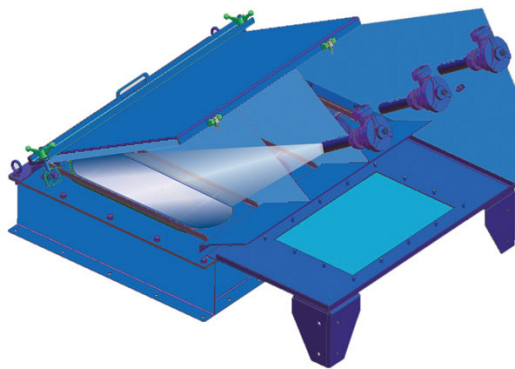
INDUSTRY: Grain dust

SITUATION: On-site evaluation of the cleanability of the new Torit PowerCore dust collector in high-dust operation

RESULTS: The PowerCore filter packs were "able to purge very well."



After testing the cleanability of the PowerCore filter pack at his grain facility, the manager commented, "Our trials indicated that the filter packs are able to purge very well."



"But will it pulse clean?" was the facility manager's first question when he was introduced to the PowerCore® filter pack from Donaldson® Torit®.

"The theory behind PowerCore is technically valid but the media looks strange compared to a baghouse filter," he commented. "I doubted the narrow channels of the media pack could be pulsed clean."

The facility manager agreed to test Torit® PowerCore® at his grain processing facility, in a high-dust area that sees a variety of particle sizes, from very small (submicron) to large.

Positioned over the silo loading chutes, the PowerCore filter packs captured dust until the pressure drop increased to 4"wg* and triggered the cleaning mechanism. This sends a pulse of clean air back through the filter packs to blow off collected particulate. After only 3 pulses, the pressure drop fell to the low set point of 1"wg. This quick pressure drop recovery was seen repeatedly.

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The main reason the filter packs get cleaned well is that they are constructed with Donaldson's advanced nanofiber filter media, Ultra-Web®. This microscopic "web" layer, bonded to a sturdy substrate, captures most of the particulate on the surface of the media, allowing dust to be more easily pulsed off during the cleaning cycle of the collector.

Another reason for the consistently successful pulse-cleaning is Donaldson's patent-pending Compact Oblique Pulse Cleaning System (illustrated at left) on Torit PowerCore. Designed to match the obround shape of the filter pack, the pulse energy spans the entire media pack, cleaning all areas without wasting energy.

After testing the cleanability to his satisfaction, this facility manager ordered 2 Torit PowerCore bin vent units to capture dust from the grain conveying system in the barge loadout operation. ○

* "wg" = pressure drop expressed in inches water gauge