

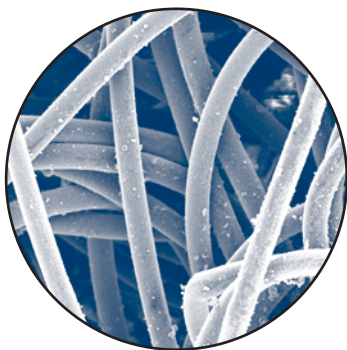


## Soybean Terminal Obtains 3X Longer Filter Life with Dura-Life™ Filter Bags

**INDUSTRY:** Soybean Processing

**PROBLEM:** Short filter life

**SOLUTION:** By switching from conventional 16-oz polyester filter bags to Donaldson® Torit® Dura-Life™ filter bags, this soybean terminal now enjoys more than 3 times longer filter life.



Dumping soybeans generates 10,000 pounds of dust every 36 hours at this midwest terminal.

This 300x magnification of Dura-Life filter media shows the smaller, more uniform pore size — designed for high filtration efficiency and long filter life.

\* Pressure drop is measured in inches of water gauge, symbolized as "w.g."

Dura-Life bags are made with Durapex® media manufactured by Polymer Group, Inc.

Dumping field-fresh soybeans from the truck into storage is a dusty job—in fact, the dust-loading in the baghouse is 10,000 pounds every 36 hours at one terminal in southeastern Arkansas. The plant runs 24/7, so having to stop and change filter bags disrupts the process. When the terminal manager searched for better filter bags with longer life, he found his solution in Dura-Life™ *Twice-the-Life* filter bags from Donaldson® Torit®.

Before, pressure drop across the baghouse with the conventional 16-oz filter bags ran up to 6 "w.g.\* in only 4300 hours (about 6 months.) Now, with Dura-Life filter bags in place, this facility has run 14,000 hours (18 months) of continuous operation without bag replacement. The pressure drop starts at 1 "w.g. and rises to 3.5 "w.g. before the cleaning mechanism in the baghouse starts—then drops back down to 1 "w.g. almost immediately.

With its smaller, uniform pore size, Dura-Life filter media is very efficient. It is designed with a proprietary hydro-entanglement technology that retains dust on the surface of the bag, allowing dust to be pulsed off during the collectors self-cleaning cycle. The filters release 30% fewer emissions than conventional 16-oz polyester filter bags, while providing extra long filter life.

### Longer Life with Dura-Life Filter Bags

The terminal manager commented, “We see a big difference with the Dura-Life filter bags. They last a whole lot longer. The price is a little more, but you get what you pay for. And, based on the successful operation in the old collector, we also purchased a set of Dura-Life filter bags for the new Aircon baghouse we just installed.” ☉

|                    | Conventional Filter Bags | Dura-Life Filter Bags       |
|--------------------|--------------------------|-----------------------------|
| Hours of Operation | 24/7                     | 24/7                        |
| Number of Bags     | 108                      | 108                         |
| Length of Bags     | 120.5"                   | 120.5"                      |
| Pressure Drop      | 5 - 6 "wg                | 1 - 3.5 "wg                 |
| Filter Bag Life    | 4300 hours<br>(6 months) | 14,000 hours<br>(18 months) |
| Bag Change Events  | 3x                       | 1x                          |

06\_Grain\_SoybeanTerminal

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