



# Dura-Life™ Filter Bags

## Yield 4X Life Over Competition at Grain Facility

**INDUSTRY:** Grain Processing

**PROBLEM:** A grain processor was getting only 2-to-4 months life from bag filters in their dust collector

**SOLUTION:** Donaldson Dura-Life filter bags now provide 12 months of useful life, significantly lowering the costs of replacement bags, energy, and labour time.



Donaldson Dura-Life filter bags, now installed in the Kice dust collector extracting from the elevator, are giving 4 times the life of the previous filter bags!

When a large grain processor located in the USA complained about the short life of his 400g/m<sup>2</sup> polyester filter bags, we suggested trying our new "twice the life" Donaldson Dura-Life™ filter bags. Dura-Life is designed to operate at a lower pressure drop, improving pulse cleaning and extending filter life.

The grain processor installed Dura-Life filters in its Kice dust collector, shown mounted on top of the grain elevator in the photo on the left. This collector filters the corn dust generated as the material goes into storage after grinding and milling. The dust particles are 1.0 micron and larger, and the dust loading is considered to be moderate to heavy.

The collector runs 24/7, and standard polyester bags only lasted 2-4 months. If they really "pampered it," they could get the bags to last 5 months. Now, with Donaldson Dura-Life filter bags, they get 12 months of operation -- 4 times the life! (See table below.)

The initial cost difference of the Dura-Life bags was recovered in 32 days. This savings resulted from fewer bag changes and the lower operating pressure drop, reducing annual fan & compressor operating costs.

The maintenance director noted that since the Dura-Life bags were easier to fit, installation time was reduced by 1.5 hours, further reducing labour costs.

| Time       | Standard Singed Polyester Bags Pressure Drop | Dura-Life Bags Pressure Drop | Customer Comment   |
|------------|--|------------------------------|--|
| Clean Bags | 90-100daPa                                   | 25-35daPa                    | "I checked the connections to the gauge and replaced the gauge to confirm the readings were correct."  |
| 1-2 weeks  | 165-175daPa                                  | 90-115daPa                   | "It's as if we are running at 3.0m/min rather than 3.6m/min. It just acts like a different collector!" |
| 2-4 months | 205daPa                                      | 95-120daPa                   | "We feel we've increased the size of the collector."   |
| 8 months   | 2nd set of bags dead                         | 115daPa                      | "This is definitely an improvement!"   |
| 12 months  | 3rd set of bags dead                         | 125-140daPa                  | "Dura-Life bags lasted a year."  |

Dura-Life bags are made with Durapex™ (patent pending) media manufactured by Polymer Group, Inc.

# Donaldson®

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