



# Dura-Life™ Filter Bags

## Maintain Low ΔP Without Downtime Cleaning

**INDUSTRY:** Metal

**PROBLEM:** Having to clean the collector during downtime to maintain ΔP below 6 "w.g.

**SOLUTION:** Donaldson Torit Dura-Life filter bags stabilized at a lower ΔP, 4 "w.g., and lasted twice as many hours as standard bags did.



*In this furnace application, Donaldson Dura-Life filter bags yielded twice the life -- 3000 hours of operation vs. 1500 -- compared to standard poly bags.*

### Project Statistics

<b>Contaminant</b>	Metallic alloys & burn fumes
<b>Application</b>	Arc Furnace
<b>Collector Brand</b>	Whiting - Alpha/Mark II
<b>Airflow</b>	40,000 cfm
<b>Collector Usage</b>	24 / 7 (168 hours/week)

### Project Results

Bag Type	Bag Life	End ΔP	Comments
Standard 16 oz. Polyester Bags	300 heats/ 1500 hrs	6-7 "w.g.	Downtime pulsing required
Dura-Life™ Filter Bags	600 heats/ 3000 hrs	4 "w.g.	No downtime pulsing required

When he learned that Donaldson® Torit® Dura-Life™ filter bags are designed to maintain low pressure drop (ΔP), the maintenance manager at this arc furnace company decided to try them in a Whiting dust collector that filters burn fumes and metal alloys from the furnace.

The standard polyester bags he had been using would last for 300 heats, 5 hours per heat, or about 1500 hours, and the crew had to perform extra pulse-cleaning cycles regularly during downtime to get ΔP below 6 "wg. Because of the hazardous materials generated, filter changeouts were costly.

The Dura-Life filter bags surprised him! The crew ran 600 heats, about 3000 hours, and found that the ΔP continued at a stable 4 "wg without downtime cleaning. He said he could have left them in longer, but they were so surprised and pleased about twice the life, he had the crew change them anyway. He says he plans to leave the new set in even longer this time.

**Lower ΔP and twice the life!** Because Dura-Life bags stabilize at a lower ΔP sooner, they don't need to be pulse-cleaned as often and therefore are not as often subjected to the abrasive action -- so they last longer.

The maintenance manager says he is "very happy with the Dura-Life performance" and will be switching to Dura-Life for his other collectors as well. ○