

Introducing the
Biggest
advancement
in baghouse
technology
ever!

Dura-Life™ Filter Bags

- Breakthrough technology only from Donaldson® Torit®
- Dura-Life filter bags last 2-3 times longer than standard 16 oz. polyester bags
- Energy savings due to lower pressure drop
- 30% fewer emissions based on EPA tests
- Dura-Life filter bags are standard on all Donaldson Torit baghouses
- Dura-Life filter bags are available as replacement for all brands of baghouse collectors



**Lasts
2 to 3
times
longer**

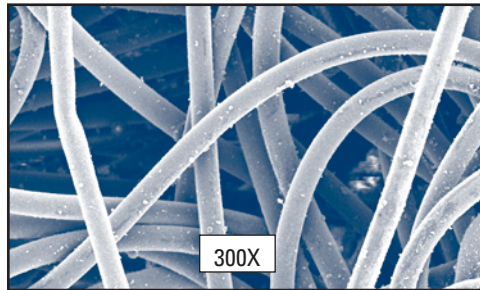


The Proven Performance of Dura-Life™

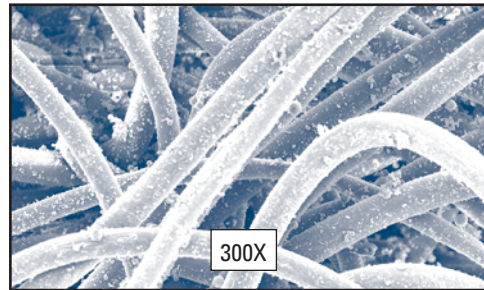
Dura-Life — A breakthrough for bag users. Polyester filter bags have historically been produced with a needling process that creates large pores where dust can embed into the fabric, inhibiting cleaning and reducing bag life. Dura-Life filter bags are engineered with a unique hydroentanglement process that uses water to blend the fibers, resulting in:

- More uniform material with smaller pore size
- Better surface loading of dust that prevents penetration deep into the media
- Improved pulse cleaning and lower operating pressure drop
- Bags with longer life and greater value

Dura-Life Filter Bag-Clean Air Side



Polyester Filter Bag-Clean Air Side

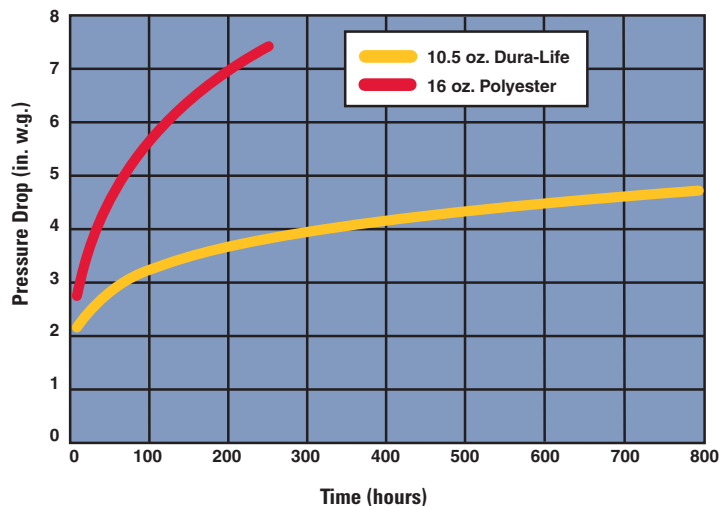


These photos were taken with a scanning electron microscope of bag media used in a collector that was filtering fly ash. The bags were removed after 2,700 hours of use. Air-to-media ratio was 4.5 to 1. Pressure drop after 2700 hours of operation was 6 in. on polyester bags and 2 in. on Dura-Life.

Dura-Life filter bags last 2-3 times longer than standard polyester.

Pressure drop increases at a faster rate with polyester filter bags due to dust embedding in the media, shortening bag life and forcing more frequent bag changes. Dura-Life filter bags, with surface loading of dust and better pulse cleaning, perform far longer than polyester filter bags when replacing due to excessive pressure drop.

Better Surface Loading Results in Longer Bag Life

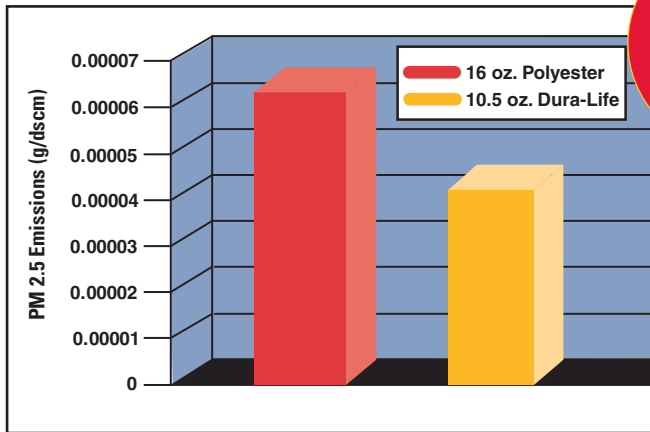


These results were derived in accelerated lab tests, which correlate to field tests results, showing that Dura-Life will provide 2-3 times more life than standard 16 oz. polyester filter bags when replacing bags due to pressure drop.

Dura-Life™ Improves the Bottom Line

Dura-Life clears the air better. Durapex media used in Dura-Life filter bags has been shown to produce lower emissions than the 16 oz. polyester material used in most standard bags. Dura-Life's Durapex media is more efficient at capturing dust, even 2.5 micron or smaller particles, reducing the amount of dust that escapes into the air. This helps to keep the workplace and environment cleaner. Dura-Life's Durapex media has been tested and received EPA PM 2.5 performance verification from the Environmental Technology Verification (ETV) Program via ASTM D 6830-02.

Dura-Life Media Provides Lower Emissions than Standard Polyester



Dura-Life provides **30%** fewer emissions



These flat sheet results are based on independent lab tests using ASTM D 6830-02 per EPA PM 2.5 performance verification from the Environmental Technology Verification (ETV) Program comparing Durapex media from PGI vs. standard 16 oz. polyester.

Dura-Life bags are the clear choice for savings. With Dura-Life, there are fewer bag changes, resulting in labor and replacement bag savings and less production downtime. Unique Dura-Life technology traps dust on the surface of the bag, allowing dust to be easily pulsed off during cleaning resulting in lower pressure drop and annual energy savings.

Labor and Bag Cost Savings Due to Fewer Bag Changes

Number of Dura-Life Bags	Maintenance & Bag Cost Savings
484	\$3,328
376	\$2,585
276	\$1,898
232	\$1,595
156	\$1,073
124	\$853
72	\$495

Labor and Bag Cost Savings of **\$3,328** or more per Dura-Life change-out

These calculations are based on the following assumptions: standard polyester filter bags are replaced annually, Dura-life filter bags provide twice the life of standard polyester filter bags, time-and-a-half labor rate equals \$45/hr. including benefits, and a three-person crew can replace 40 bags/hr. Labor and bag cost savings can further increase with larger collectors.

Annual Energy Savings of **\$5,148** or more

Annual Energy Savings Due to Reduced Pressure Drop

	Standard Polyester Bags	Dura-Life Bags
Filter Bags	484	484
Operating Delta P	5"	3"
ACFM	57,000	57,000
Motor	125 HP	125 HP
Break HP	55.4	33.2
Annual Energy Use	\$12,848	\$7,709

This is one example; energy savings can further increase with larger collectors. These energy savings are calculated based on the following assumptions: Baghouse collector runs 2 shifts per day, 5 days a week (4,000 hours per year) and energy costs are 7 cents per kilowatt hour.

Make a Change to the Better

DURA-LIFE™
Twice The Life Filter Bags

**Outlasts,
Outperforms
& Outvalues**

Can't think of a good reason to change your brand of filter bags? Donaldson Torit just provided the reason — Dura-Life filter bags that outlast, outperform and outvalue standard polyester.*

- **Advanced hydroentanglement technology extends filter bag life**
- **Maintenance costs are reduced with longer filter bag life**
- **Smaller particles are captured with greater efficiency**
- **Lower emissions help provide a cleaner workplace and environment**
- **Available in polyester, Nomex®, oleophobic, epitropic (anti-static), and epitropic oleophobic**



**2005 Readers' Choice Award Winner
Power and Bulk Engineering, February 2005**



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

® Nomex is a registered trademark of E. I. du Pont de Nemours and Company.

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