

Donaldson
Torit®

**PLEATED BAG FILTERS
WITH ULTRA-WEB® SB**

ULTRA-WEB®
High Efficiency Nanofiber Filters Built to Last

**READY
2SHIP**



TAKE A CLOSER LOOK AT OUR PLEATED BAG FILTERS

OPENING

Patent-pending, aerodynamic designed high flow opening generates 30% more cleaning energy.

OVAL DESIGN

Includes bolt-safe hardware kit.

ISEAL GASKET

Soft, gray EPDM ensures easy and secure fit for top load collectors. (Patent pending)

MOLDED URETHANE TOP CONSTRUCTION

Unique, one piece molded design for top load collectors eliminates potential leakage point at tubesheet. Soft polyurethane boot installs easily on bottom load applications.

ONE-PIECE CONSTRUCTION

One plated bag replaces one filter and cage, making changeouts easier.

BANDING

Superior urethane attachment method.

FILTER MEDIA

Ultra-Web® SB outperforms the standard spunbond products with longer life, higher efficiency, and lower pressure drop. It also tolerates chemicals and moisture, and withstands temperatures up to 250°F/121°C.

PLEAT PACK

Pleated media increases effective area compared to felt bags. Consistent pleat spacing to enhance cleaning.

TOP LOAD

BOTTOM LOAD

**FOOD GRADE COMPLIANT
CONFIGURATION AVAILABLE**

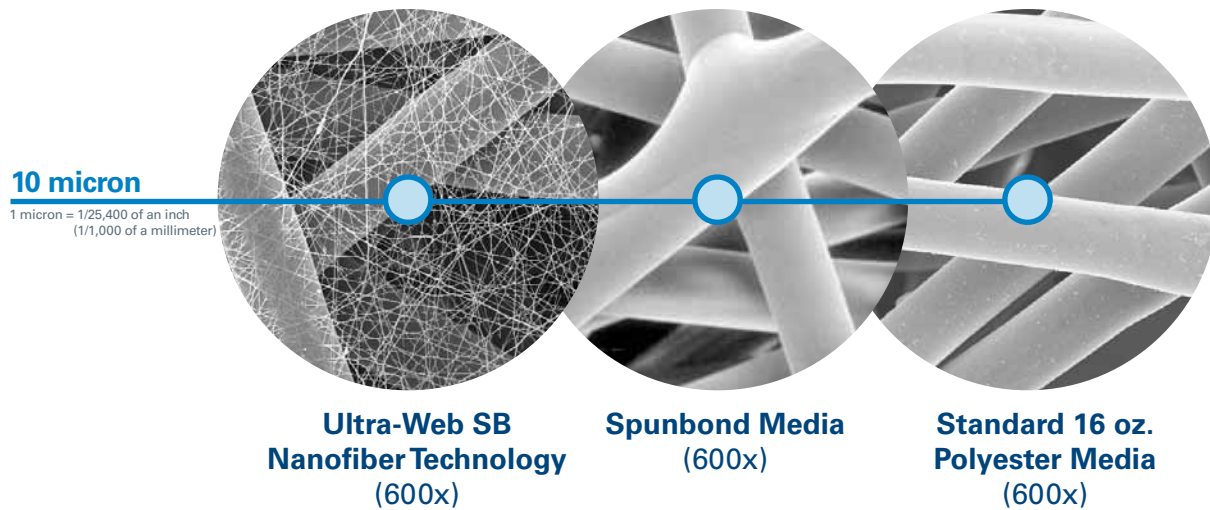
**Also available with unique
ledgeless bottom design**

THE PROVEN PERFORMANCE OF ULTRA-WEB® SB

PROPRIETARY TECHNOLOGY THAT PERFORMS

For more than two decades, Donaldson Torit has advanced the proven and proprietary Ultra-Web® technology. Made with an electrospinning process that produces a very fine, continuous fiber of 0.2-0.3 micron in diameter, Ultra-Web nanofibers form a permanent web-like net with very fine interfiber spaces that trap dust on the surface of the media. Combining superior Ultra-Web technology with a sturdy spunbond polyester substrate, the Ultra-Web SB pleated bag filters deliver longer filter life, higher efficiency, and greater cost savings for baghouse collectors.

- Advanced media is more efficient in capturing submicron dust particles (0.3 micron and larger)
- Lower energy use with better pulse cleaning and lower operating pressure drop
- Longer filter life and better pulse cleaning due to surface loading technology
- Cleaner air, longer filter life, and greater cost savings



| Pleated Bag Filters | 3-10 µm | 1-3 µm | 0.3-1 µm |
|---|-----------|-----------|-----------|
| Ultra-Web® SB Pleated Bag Filters MERV 15 Rating | Excellent | Excellent | Excellent |
| Spunbond Pleated Bag Filters | Excellent | Fair | Fair |
| 16 oz. (453.6 g) Polyester Felt Bag Filters | Fair | Fair/Poor | Poor |

Standard spunbond and 16 oz. (453.6 g) polyester felt are not efficient enough to rate on submicron dust particles. Standard spunbond filters capture particulate at the 1-3 micron level, while 16 oz. (453.6 g) polyester felt only effectively captures at the 3-10 micron level.

OUR ADVANTAGE IS YOUR SOLUTION

Why pleated bags? Ultra-Web SB pleated bag filters are engineered to deliver solutions for most common baghouse problems.

| PROBLEM | PLEATED BAG FILTER SOLUTION |
|------------------------|--|
| Not Enough Filter Area | Pleated bag filters can provide almost twice as much filtration area in existing equipment due to the increased media in the pleat pack design. |
| High Pressure Drop | Increasing filter area causes the air to media ratio to decrease when the airflow stays the same. The pressure drop also decreases. |
| Abrasion | Pleated bag filters are shorter than the fabric bags they’re replacing. This allows for a larger drop out area and less opportunity for bag abrasion. |
| Stack Discharge | Ultra-Web SB offers all the benefits of spunbond media, plus the superiority of nanofiber technology allowing for the capture of submicron particulate reducing stack emissions. |
| Short Life | Pleated bag filters offer up to 2-3 times the filter life over 16 oz. (453.6 g) polyester felt bags. |

| COLLECTOR BAG FILTERS | | | Benefits |
|------------------------------|---|---|---|
| | Conventional Polyester | Ultra-Web SB Pleated | |
| Airflow | 55,000 cfm (93,426 m³/h) | 90,000 cfm (152,879 m³/h) | Collectors are now using less energy to operate and are able to operate at the designed flow rate |
| Pressure Drop after 6 months | 10 inches of H ₂ O (254 mm of H ₂ O) | 2 inches of H ₂ O (51 mm of H ₂ O) | Filters last longer with fewer filter changeouts |

MAKE A CHANGE TO THE BETTER

Can't think of a good reason to change your brand of pleated bags? Donaldson Torit just provided the answer — pleated bag filters with Ultra-Web® SB nanofiber technology available for all popular brands of baghouse collectors.

NOW AVAILABLE FOR THE RF COLLECTOR



RF - Grain Terminal



RF - Quarry

AVAILABLE FOR ALL POPULAR BAGHOUSE COLLECTORS



MB - Glass



FS - Wood

ULTRA-WEB® SB PLEATED BAG FILTERS

PROVIDE SUPERIOR PERFORMANCE ON FIBROUS WOOL DUST

INDUSTRY: Rug Making

PROBLEM: Fibrous dust from wool rugs clogged up the pleated bag causing high pressure drop (10 in of H₂O /254 mm of H₂O) and only 6 months filter life

SOLUTION: Donaldson Torit Ultra-Web SB pleated bag filters. The combination of Ultra-Web nanofibers and wider pleat spacing allows effective pulse cleaning, achieves stable pressure drop (2.25 in of H₂O/57.2 mm of H₂O), & attains at least twice the filter life.

Not only did they need a baghouse that could handle the fibrous wool dust from spool loading for making rugs, but the plant engineer at this carpet weaving facility wanted filter life longer than six months. Was that too much to ask?

The plant engineer at Karastan and his crew operate and maintain eight MAC baghouse dust collectors designed for 90,000 cfm on a 24/5 basis. The pleated bag filters they were using worked for 6 months, then plugged up—as evidenced by the 10" of H₂O (254 mm of H₂O) pressure drop and the deficient 55,000 cfm (93,426 m³/h) through the baghouse system.

An inspection by Donaldson® Torit® found wool fibers packed in the pleats of the bag that couldn't be pulsed out. The system had a variable frequency controller on the fan for greater fan efficiency, but it was not being used.

Donaldson Torit suggested four steps to full remedy:

1. Switch to Donaldson Torit Ultra-Web® SB pleated bag filters. The nanofiber layer over the polyester spunbond substrate, combined with the wider pleat spacing, would enable the pulse-clean systems to clean off the collected dust and fibers effectively.
2. Use a filter that is 48" (1,219 mm) long instead of 40" (1,016 mm) to provide more media area.
3. Use the variable frequency controller to save operating energy.
4. Implement a down-time cleaning cycle during weekend shutdown, without the fan running, to keep the filter surface cleaned off as much as possible.

Significant Results

Karastan implemented all of the recommendations and after ten months (5000 operational hours), the pressure drop of the baghouses is stable — between 2 and 2.5 inches of H₂O (50.8 and 63.5 mm of H₂O).

Karastan plant engineer says, "I am thrilled with the performance of the Ultra-Web SB pleated bags! They kept us from having to buy a new collector. So far, we are getting twice the life compared to the old bags, and I suspect we will get even more."



Ultra-Web SB pleated bag filters maintain lower pressure drop across the baghouse in the Karastan rug factory, helping to save energy and keep production running smoothly.



Ultra-Web SB pleated bag filters are available for all popular collectors.

- AAF®
- Aeropulse
- BHA
- Buhler Miag
- Camcorp
- Carborundum
- CP Environmental
- C & W
- Flex-Kleen
- Fuller
- Griffin
- IAC
- Kice
- MAC
- MikroPul
- Pneumafil
- Seneca
- Ultra
- Wheelabrator
- + Many others



To learn more about Ultra-Web SB pleated bag filters,
Call **800-365-1331** or visit **donaldsontorit.com**

Global Support

- Facilities in 37 countries
- 40 manufacturing plants and 14 distribution centers

Leading Technology

- Over 1,000 engineers and scientists worldwide
- Broad range of innovative collectors and filters
- 100s of filter media formulations

Experience and Service

- Technical expertise and support
- Ready-to-ship filters and parts within 24 hours
- 1,000,000+ dust, fume and mist collectors installed

Call Donaldson® Torit® to get cleaner air today:

800-365-1331

DonaldsonTorit.com



Tel 800-365-1331 (USA)
Tel 800-343-3639 (within Mexico)

donaldsontorit@donaldson.com
donaldsontorit.com

Donaldson Company, Inc.
Torit
P.O. Box 1299
Minneapolis, MN
55440-1299 U.S.A.

EXACTLY WHAT YOU NEED.™

Pleated Bag Brochure (06/12)

© 2010 Donaldson Company, Inc. All Rights Reserved. All products, product specifications, and data (airflow, capacity, dimensions, or availability) are subject to change without notice, and may vary by region or country. Donaldson Torit is a registered trademark of Donaldson Company, Inc.