



# PLEATED BAG FILTERS WITH ULTRA-WEB® SB



# TAKE A CLOSER LOOK AT OUR PLEATED BAG FILTERS

## 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 121°C.



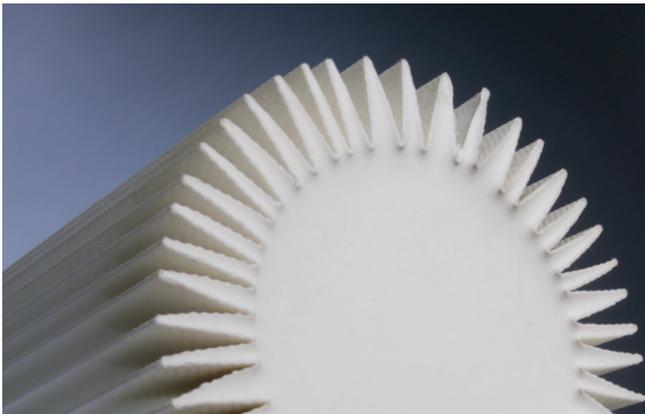
## PLEAT PACK

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® DCE® 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

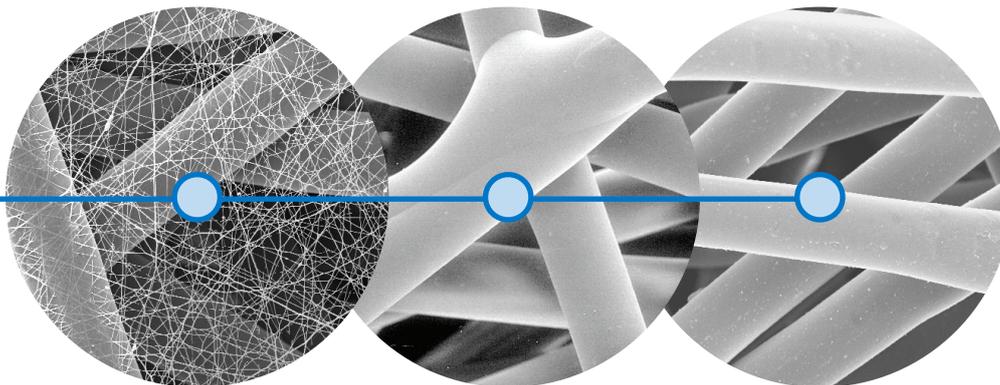
web-like net with very fine interfiber spaces that trap dust on the surface of the media. Combining superior Ultra-Web® technology with a sturdy spunbond polyester substrate, the Ultra-Web® SB pleated bag filters deliver longer filter life, higher efficiency, and greater cost savings for baghouse collectors.

## Features and Benefits

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

10 micron

1 micron = 1/1,000 of a millimeter



Ultra-Web® SB Nanofibre Technology (600x)

Spunbond Media (600x)

Standard 450g Polyester Media (600x)

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
450 g Polyester Felt Bag Filters	Fair	Fair/Poor	Poor

Standard spunbond and 450 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 450 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 challenges.

CHALLENGES	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 nanofibre 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 450 g polyester felt bags.

DUST COLLECTOR BAG FILTERS			Benefits
	Conventional Polyester	Ultra-Web SB Pleated	
Airflow (m³/h)	95 000	150 000	Collectors are now using less energy to operate and are able to operate at the designed flow rate
Pressure Drop after 6 months (daPa)	250	50	Filters last longer with fewer filter changeouts

**Donaldson**  
Torit® DCE®

Dust and Fume Removal · Oil Mist Separation



**Donaldson**  
FILTRATION SOLUTIONS

### Total Filtration Management

Donaldson offers a wide variety of solutions to reduce your energy costs, improve your productivity, guarantee production quality and help protect the environment.

### Total Filtration Service

A comprehensive range of services especially designed to keep your production at peak performance and at the lowest total cost of ownership.

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