Donaldson
Torit®

# ULTRA-WEB® SB CARTRIDGE

## ENGINEERED FOR DUST COLLECTION

Ultra-Web® SB cartridge filters offer the unmatched surface loading capabilities of our standard Ultra-Web filters with a spunbond substrate that stands up to more abrasive dusts, harsh chemicals and moisture.

The proprietary Donaldson Ultra-Web media employs a web of very fine, resilient fiber 0.2-0.3 microns in diameter to catch submicron dust particles at the surface of of the filter. This prevents particulates from settling in deep in the filter substrate, allowing Ultra-Web SB cartridge filters to last up to twice as long as traditional filters. The result is a filter that lasts longer, cleans better and costs less to operate than competitive filters. A wide range of styles and sizes fit most popular brands and styles of collector.

## FEATURES & BENEFITS

- Fine fiber technology ensures longer filter life at a significantly lower pressure drop
- Tough spunbond polyester substrate provides high durability
- MERV* 15 filtration efficiency rating per ASHRAE 52.2-2007
- Wide pleat spacing allows thorough pulse cleaning of fine, fibrous, and agglomerative dust
- Lower pressure drop saves energy
- Longer filter life reduces replacement, maintenance cost, and production downtime
- Spunbond substrate provides excellent moisture and chemical resistance

**Ultra-Web SB Cartridge**

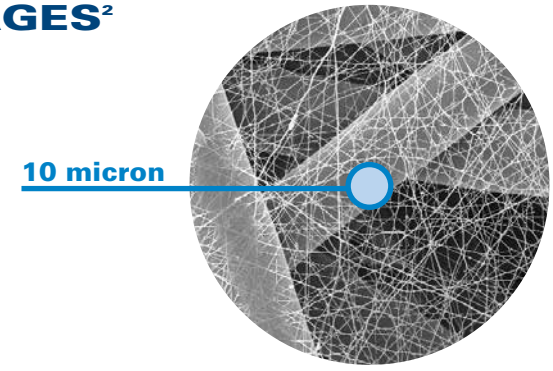
## THE ULTRA-WEB ADVANTAGE IS CLEANER AIR

Ultra-Web® is proprietary and made with an electrospinning process that produces a very fine, continuous, resilient fiber of 0.2-0.3 micron in diameter to form a permanent web-like net. This fine fiber "web" with its very fine interfiber spaces is constructed onto tough spunbond substrate media, resulting in:

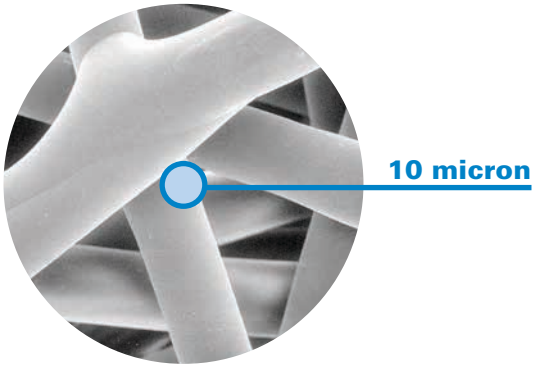
- A more robust media that captures even submicron dust on the surface
- Better pulse cleaning and lower pressure drop
- Cleaner air, longer filter life, and greater cost savings

## SEM IMAGES[2]

1 micron = 1/25,400 of an inch
(1/1000 of a millimeter)




**Ultra-Web on Spunbond**† (600x)




**Spunbond** (600x)

† Scanning Electron Microscope
* Refer to Minimum Efficiency Reporating Value on page 2.

# SPECIFICATIONS

## MEDIA COMPOSITION

| | |
|---|---|
| Fine Fiber Technology | Proprietary synthetic fine fibers<br>Mean fiber diameter of 0.2 µm |
| Substrate | Spunbond polyester |

## MEDIA COMPATIBILITY DATA

| | | |
|---|---|---|
| Temperature Resistance | 180°F / 82°C | |
| Moisture Absorption** | 0.2 - 0.5% @ 70°F (21°C) and 65% RH | |
| Chemical Tolerance*** | Acids→Good<br>Bases→Good | Oxidants→Good<br>Solvents→Good |
| Abrasion Resistance | Excellent per TAPPI 476 (Taber Method) | |

## CARTRIDGE CONSTRUCTION

| | |
|---|---|
| Standard Construction | Galvanized metal end caps<br>Galvanized expanded metal liners (60% open area)<br>Urethane gasket<br>Wide pleat spacing |
| Options | Stainless steel liner and end caps |

## MEDIA EFFICIENCY

| | |
|---|---|
| U.S. Efficiency Rating | MERV* 15 per ASHRAE 52.2-2007 |

# CONFIGURATIONS

| Collector Models | Filtration Area | | Pleat Height | | Cartridge Dimensions | |
|---|---|---|---|---|---|---|
| | ft² | m² | in | mm | in | mm |
| AerTable | 106.0 | 9.9 | 2.0 | 50.8 | 12.74 x 26.0 | 323.6 x 660.4 |
| Bin Vent (TBV) | 106.0 | 9.9 | 2.0 | 50.8 | 12.74 x 26.0 | 323.6 x 660.4 |
| CX Series | 120.0 | 11.2 | 2.0 | 50.8 | 13.84 x 26.0 | 351.5 x 660.4 |
| Downdraft Bench (DB) | 120.0 | 11.2 | 2.0 | 50.8 | 13.84 x 26.0 | 351.5 x 660.4 |
| Downflo®(DF) | 106.0 | 9.9 | 2.0 | 50.8 | 12.74 x 26.0 | 323.6 x 660.4 |
| Downflo® Containment System (DCS) | 90.0 | 8.4 | 1.5 | 38.1 | 11.4 x 14.4 x 26.0 | 288.5 x 364.7 x 660.4 |
| Downflo II (DFT) | 120.0 | 11.2 | 2.0 | 50.8 | 13.84 x 26.0 | 351.5 x 660.4 |
| Downflo Oval (DFO) | 90.0 | 8.4 | 1.5 | 38.1 | 11.4 x 14.4 x 26.0 | 288.5 x 364.7 x 660.4 |
| Downflo® Evolution (DFE) | 120.0 | 11.1 | 2.0 | 50.8 | 13.74 x 13.74 x 26.0 | 349.1 x 349.1 x 660.4 |
| Downflo WorkStation (DWS) | 90.0 | 8.4 | 1.5 | 38.1 | 11.4 x 14.4 x 26.0 | 288.5 x 364.7 x 660.4 |
| Downflo (SDF) | 43.0 | 4.0 | 2.0 | 50.8 | 9.2 x 22.3 | 233.9 x 566.2 |
| Environmental Control Booth (ECB) | 106.0 | 9.9 | 2.0 | 50.8 | 12.74 x 26.0 | 323.6 x 660.4 |
| MTD | 106.0 | 9.9 | 2.0 | 50.8 | 12.74 x 26.0 | 323.6 x 660.4 |
| ProBooth™ | 106.0 | 9.9 | 2.0 | 50.8 | 12.74 x 26.0 | 323.6 x 660.4 |
| SiloAir | 27.0<br>39.0 | 2.5<br>3.6 | 2.0<br>2.0 | 50.8 | 8.0 x 22.0<br>8.0 x 32.0 | 203.2 x 558.9<br>203.2 x 812.8 |
| TD Large | 106.0 | 9.9 | 2.0 | 50.8 | 12.74 x 26.0 | 323.6 x 660.4 |
| TD Small | 39.0 | 3.6 | 2.0 | 50.8 | 7.9 x 16.0 | 201.4 x 406.4 |

* The Minimum Efficiency Reporting Value (MERV) of this filter cartridge has been determined through independent laboratory testing using ASHRAE 52.2 (2007) test standards. The MERV rating was determined at a face velocity of 118 feet per minute (36.0 meters per minute) and loading up to four inches (101.6 millimeters) water gauge. Actual efficiency of any filter cartridge will vary according to the specific application parameters. Dust concentration, airflow, particle characteristics, and pulse cleaning methods all affect filtration efficiency.

** Environmental conditions involving combinations of high temperature, corrosive material, and moisture can reduce media strength. Reduction in media strength may compromise cartridge integrity and performance.

*** A combination of chemicals may alter fiber resistance to the specified performance level. Chemical attack may compromise cartridge integrity and performance.

Significantly improve the performance of your collector with genuine Donaldson Torit replacement filters and parts. **Call Donaldson Torit at 800-365-1331.**

**Important Notice**
Many factors beyond the control of Donaldson can affect the use and performance of Donaldson products in a particular application, including the conditions under which the product is used. Since these factors are uniquely within the user's knowledge and control, it is essential the user evaluate the products to determine whether the product is fit for the particular purpose and suitable for the user's application. All products, product specifications, availability and data are subject to change without notice, and may vary by region or country.

Donaldson Company, Inc.
Minneapolis, MN

**donaldsontorit.com • shop.donaldson.com**

**North America**
Email: donaldsontorit@donaldson.com
Phone: (USA): +1-800-365-1331 • (MX): +1-800-343-36-39

**Australasia**
Email: marketing.australia@donaldson.com
Phone: +61-2-4350-2000
Toll Free: (AU) +1800-345-837 • (NZ) +0800-743-387

**China**
Email: info.cn@donaldson.com
Phone: +86-400-820-1038

**Donaldson Europe B.V.B.A.**
Email: IAF-europe@donaldson.com
Phone: +32-16-38-3811

**India**
Email: info.difs@donaldson.com
Phone: +91-124-4807-400 • +18001035018

**Japan**
Email: jp-ndl.ifsweb@donaldson.com
Phone: +81-42-540-4112

**Korea**
Email: iaf-kr@donaldson.com
Phone: +82-2-517-3333

**Latinoamerica**
Email: IndustrialAir@donaldson.com
Phone: +52-449-300-2442

**South Africa**
Email: SAMarketing@donaldson.com
Phone: +27-11-997-6000

**Southeast Asia**
Email: IAF.SEA@donaldson.com
Phone: +65-6311-7373

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