



### **Ultra-Web® Filters Have No Equal**

Torit-Built® filters keep dust collectors operating at peak performance. Offered for a full range of dust, fume and mist collection applications, Torit-Built filters—especially our patented Ultra-Web® filters—outperform and outlast other filters. When it comes to Torit-Built Ultra-Web filters, there is no equal in performance and value.

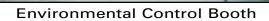
All filters are not alike. Equip a dust collector with a generic replacement filter and expect the performance of that collection system to decline. What's worse, generic replacement filters selected for their initial lower purchase price often waste manufacturers' time, productivity and money in the long run.

#### **Torit-Built filters offer:**

- Higher performance
- Increased efficiency
- Longer filter life
- Greater value



Dryflo® Mist Collector





Downflo® Oval 1<sup>™</sup> Dust Collector

#### The Value of Ultra-Web® Filters

Don't be fooled by the initial lower purchase price of will-fit cartridge filters. Using generic brand filters can be an expensive proposition. Will-fit filter cartridges don't last as long and must be replaced more often than Torit-Built filters. And that means buying and replacing more filters, more often—which costs more over time.

There is no comparison to Ultra-Web filters when it comes to quality and cost. Ultra-Web filters offer dramatic savings compared to generic will-fit cellulose and cellulose/synthetic fiber blend filters.

## **True Cost of Replacement Filters**

Comparison Factors Over 30 Month Period	Generic Cellulose Synt	Generic Cellulose/ hetic Fiber Blend	Ultra-Web® EZ	Ultra-Web®
Purchase price per cartridge	\$59	\$70	\$94	\$94
Filter life	8 months	9 months	12 months	12 months
Number of filter changes	3	3	2	2
Total purchase cost for filters	\$2,832	\$3,360	\$3,008	\$3,008
Disposal cost = \$50 per drum Total disposal cost for 16 filters after 30 months	\$2,400	\$2,400	\$ 600*	\$1,600
Changeout cost (do-it-yourself) Total changeout cost for filters	\$ 450	\$ 450	\$ 300	\$ 300
Total investment	\$5,682	\$6,210	\$3,908	\$4,908

## Total Savings With Ultra-Web Filters

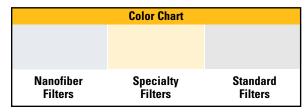
Ultra-Web Filter Costs Compared With Generic Filter Costs	Ultra-Web EZ	Ultra-Web
Generic cellulose total investment Ultra-Web total investment Ultra-Web savings	\$5,682 (3,908) <b>\$1,774</b>	\$5,682 (4,908) <b>\$ 774</b>
Generic cellulose/synthetic fiber blend total investment Ultra-Web total investment Ultra-Web savings	\$6,210 (3,908) <b>\$2,302</b>	\$6,210 (4,908) <b>\$1,302</b>

This application example is based on a DFT 2-16 dust collection system and very fine, dry dust (submicron particles). Cartridge changeout takes 1 hour.

<sup>\*</sup>Ultra-Web EZ filters are crushable to fit three filters in one drum for reduced disposal requirements and costs.

## **Filter Options**

	Ultra-Web®	Ultra-Web <sup>®</sup>	Ultra-Web®	Fibra-Web®
Base media	Cellulose	Cellulose	Cellulose	Synthetic
Superior particle release	Nanofiber¹	Nanofiber	Nanofiber	Nanofiber
BIA C <sup>3</sup> –High initial efficiency of 99.9% on 0.2-2 micron	Yes	Yes	Yes	Yes
Operating efficiency	99.999% on 0.5 micron	99.999% on 0.5 micron	99.999% on 0.5 micron	99.999% on 0.5 micron
Washable	1 time	1 time	1 time	Up to 3 times
Maximum operating temperature	150°F / 65°C	150°F / 65°C	150°F / 65°C	150°F / 65°C
Abrasion resistance	Good	Good	Good	Excellent
Chemical tolerance	Fair	Fair	Fair	Good
Optional flame retardant media (FR)	Yes	Yes	Yes	Yes
Special characteristics	Highest efficiency similar to membrane products at a much lower price.	Construction without outer liner enhances performance on agglomerative dusts.	Provides compact disposal - saves 67% of disposal costs.	Wide pleat spacing provides thorough pulse cleaning of fibrous and agglomerative particles.
Markets	Metalizing, Pharmaceutical, Thermal Spray, Welding	Dry chemical processing, Pharmaceutical, Powder coating	Battery recycling, Foundry, Mining, Welding	Composite grinding, Food processing, Grain handling, Metal buffing, Pharmaceutical, Textiles, Woodworking
Applications	Premium performance on ambient, extremely fine and non-fibrous dust and some abrasive dust. High filtration efficiency on very fine particulate of <1 micron.	Premium performance on ambient, extremely fine and non-fibrous dust. High filtration efficiency. Enhanced dust release.	Premium performance on ambient, extremely fine and non-fibrous dust. Light weight, compact, and crushable filters reduce disposal costs by 67%.	Excellent performance on combination fibrous and non-fibrous dust, and/or agglomerative dust.
Dust types	Fumed silica, Metallic fume, Metallurgical powders, Oily weld fume	Activated carbon, Pharmaceutical dust, Powder paint	Cadmium, Chromium, Lead, Silver	Ceramics, Cotton, Fiberglass, Tobacco
Available for collectors (see key at far right)	AAT; AT-3000; DB; DF0; DFT; ECB; ET; PT; SDF; T-2000; TBV; TD; WB	DFO; DFT; ECB; TBV; TD	DB; DFT	DFO; DFT; ECB; SDF; TBV; TD



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<sup>\*</sup>Dust Hog and SupraBlast are registered trademarks of United Air Specialists.

## **Filter Options**

Ultra-Web®	Torit-Tex <sup>™</sup>	Torit-Tex <sup>™</sup> CD	Torit-Tex <sup>™</sup> HCD	Kevlar*/ Nomex*	Thermo-Tek®
Cellulose	Calendered, Spunbond polyester	Carbon impregnated, Calendered, Spunbond polyester	Carbon impregnated, Calendered, Spunbond polyester	Synthetic	Synthetic
Nanofiber	Tetratex® PTFE Membrane²	Tetratex® PTFE Membrane²	Tetratex® PTFE Membrane²		
No	Yes	Yes	Yes	No	No
99.999%	99.999%	99.999%	99.999%	99.99%	99.99%
on 0.5 micron	on 0.5 micron	on 0.5 micron	on 0.5 micron	on 1-10 micron	on 1 micron
1 time	Several times	Several times	Several times	None	Up to 3 times
150°F / 65°C	200°F / 93°C	200°F / 93°C	275°F / 135°C	350°F / 177°C	275°F / 135°C
Good	Excellent	Excellent	Excellent	Excellent	Excellent
Fair	Excellent	Excellent	Excellent	Good	Excellent
Yes	No	No	No	No	No
Enhanced performance	Wide pleat spacing and	Conductive media	Conductive media	Special gaskets and	Excellent chemical
due to improved efficiency and dust cake release during pulse cleaning.	smooth, hydrophobic, state-of-the-art PTFE membrane provides excellent particle release.	with certified resistivity level of 10 <sup>4</sup> OHM.	with certified resistivity level of 10 <sup>4</sup> OHM.	adhesives assure structural integrity and airtight sealing characteristics.	tolerance—stainless steel option only.
Retrofit, superior to cellulex and cellulex/ synthetic blend filter media.	Chemical processing, Food processing, General industrial	Chemical processing, General industrial, Pharmaceutical, Pulp and paper	Chemical processing, General industrial, Pharmaceutical, Pulp and paper	Chemical processing, General industrial	Cement processing, Chemical processing, Metallurgical, Pharmaceutical
Retrofit for use in Dust Hog®*; SupraBlast®*; Mactiflo™*; Optiflo®*; Tenkay®*, Wheelabrator, and others.	Highly recommended for chemical, food, and industrial processing when product contamination must be minimized. Excellent performance on moist, hygroscopic, or agglomerative dust.	Applications where electrostatic charges can be dangerous.	Applications where electrostatic charges can be dangerous and with higher temperatures up to 275°F / 135°C.	Metallurgical, Chemical, and Industrial processes. Higher temperature applications up to 350°F / 177°C.	Metallurgical, Chemical, and Industrial applications. Higher temperature applications.
Various	Dextrose, Flour, Starch, Sugar, Whey	Coal, Plastics, Powdered materials, Prepared food	Coal, Plastics, Powdered materials, Prepared food	Cement, Coal/Coke, Ink, Paint pigment	Carbon, Cement, Foundry shakeout, Metal powders, Shot blast, Silica gel drying, Thermal spray
Competitive brand equipment	DFO; DFT; ECB; SDF; TBV; TD	DFT	DFT	DFT; ECB; TBV; TD	DFO; DFT; ECB; TBV; TD

Note: Optional stainless steel construction available on all cartridges.

- 1. Nanofiber technology provides an initial filtration efficiency of up to 10 times greater than conventional media by utilizing a unique layer of submicron fibers on the media's surface.
- 2. Tetratex® PTFE membrane is comprised of millions of small, randomly connected fibers that create extremely small pore sizes to repel water while allowing air and moisture vapor to pass.
- 3. BIA C-certificate available upon request. BIA C certifies initial efficiency.

## Filter Options

Dryflo®	Vibra Shake <sup>™</sup>	Ultra-Tek®	BonDura™	Endura-Tek <sup>™</sup>	Cellulex <sup>™</sup>
Synthetic	Cellulose	Synthetic	Calendered, Spunbond polyester	Cellulose and Synthetic fibers	Cellulose
No	No	No	No	No	No
98%	99.99%	99.99%	99.99%	99.99%	99.99%
on 1.8 micron	on 0.5 micron	on 5 micron	on 1-10 micron	on 0.5 micron	on 0.5 micron
None	None	Up to 3 times	Several times	Up to 3 times	None
150°F / 65°C	150°F / 65°C	150°F / 65°C	200°F / 93°C	150°F / 65°C	150°F / 65°C
N/A	Good	Excellent	Excellent	Good	Good
Fair	Fair	Good	Excellent	Fair	Fair
No	No	Yes	No	Yes	Yes
Prefilter coalesces	Prefilter sieves	Proprietary blend of	Excellent moisture	Delivers extended	Enhanced performance
smaller droplets into	larger particulate.	fibers and wide pleat	resistance and dust	filter life over	due to a unique
larger droplets.		spacing reduce	release properties.	traditional untreated	combination of fiber
		pressure drop and increase airflow.		cellulose media.	sizes and a more uniform fiber distribution.
Metalworking	Grinding and polishing, Bag dumping	Composite grinding, Grain handling, Textiles, Woodworking	Surface blasting, Grinding and polishing, Powder coating	Humid climates, Retrofit	Retrofit, superior to felts, fabrics, cotton cloths, and similar media
Wet machining	Higher efficiency and easier maintenance for applications where envelop filters are typically used. Intermittent duty applications and machining.	Applications with fibrous dusts of >10 micron particulate. Washable applications.	Very good performance on surface treatment applications and abrasive dust. Very good in high moisture and on agglomerative dust.	Ambient, non-fibrous dust applications under humid conditions.  Economical choice for operations with forced or cyclical filter replacement (independent of pressure drop).	Applications with dry, coarse particulate. Economical choice for operations with forced or cyclical filter replacement (independent of pressure drop).
Water soluble straight oils, Semi-synthetic and synthetic coolants	Metal grinding, Carbon dust, Graphite dust.	Ceramics, Composites, Fiberglass, Wood dust	Metal grinding, Powder coating, Shot blast	Gypsum, Lime, Shot blast	Various
ADMC; DMC-MMA; MMB; DMC; C; D1-D10	RVS; VS	DFO; DFT; ECB; SDF; TBV; TD	DFT; ECB; SDF; TBV; TD	DFT; ECB; TD	DFT: ECB TBV; TD

Collector Ac	cronym Collector Name	Collector Acron	ym Collector Name	<b>Collector Acronym</b>	<b>Collector Name</b>
AAT	Ambient Air Tubesheet	DFT	Downflo II	RVS	Round Vibra Shake
ADMC	Advanced Dryflo Mist Collector	DMC; C; D1-D10	Dryflo Mist Collector	SDF	Downflo SDF
AT-3000	Ambient System	DMC-MMA; MMB	Dryflo- Machine Mountable	TBV	Torit Bin Vent
DB	Downdraft Bench	ECB	Environmental Control Booth	T-2000	Trunk 2000
DF0	Downflo Oval I	ET	Easy-Trunk	VS	Vibra Shake
		PT	Porta-Trunk	WB	Weld Bench

## **Cartridge Filter Breakthroughs**

**Unparalleled Technology** As the world leader in air filtration for nearly 90 years, Donaldson Company continually strives to engineer filters that outperform all others. Donaldson Company set the standard in cartridge filter technology with innovations like our proprietary nanofiber filter media.

Nanofiber media is the most efficient and cost-effective choice available for most dust, fume and mist collection processes. Donaldson Torit offers a full range of high performance cartridges for almost any application.

### **Experience the Nanofiber Advantage**

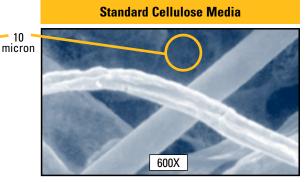
- Increased surface loading
- Better cleaning efficiency
- Captures sub-micron contaminants
   Lower cost per cubic foot of air per minute (cfm)
- Enhances dust cake release
- Lower energy cost

**Nanofiber Filter Media** The distinguishing factor in our Ultra-Web and Fibra-Web filters is nanofiber filtration technology. It uses a layer of fibers 0.2 to 0.3 microns in diameter to capture contaminants less than one micron in size. With nanofiber filters, dust particles rapidly accumulate on the filter surface to build a thin, permeable dust-stopping cake. As a result, Ultra-Web and Fibra-Web filters offer the highest filtration efficiency by eliminating premature filter plugging and allowing the dust cake's release during the collector's cleaning cycle.

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# **Nanofiber Media** 600X

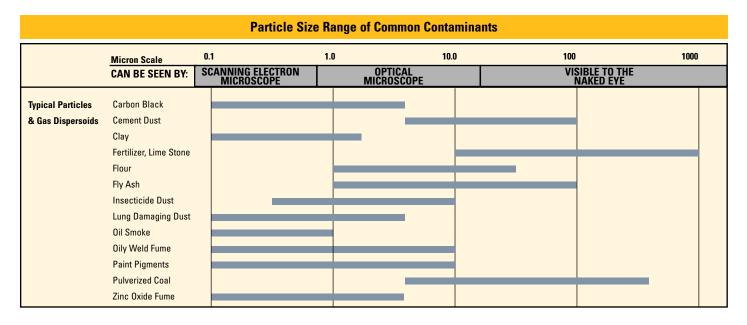
Nanofiber technology is available in all Ultra-Web and Fibra-Web replacement filter cartridges.



Conventional cellulose media has spaces of up to 60 microns between fibers, allowing dust to become deeply imbedded.

## **Operating Advantages**

**Donaldson Torit Filters Perform** The world of air filtration revolves around Donaldson Torit. We are the world leader in filtration solution science and technology. We cover a wide range of industrial air filtration applications with a variety of filter cartridge models that provide the highest levels of performance on all types of dust, fume and mist.



Filter Cartridge Performance Scale								
	non ooulo	0.1 SCANNING ELECTRON MICROSCOPE	1.0	10.0 OPTICAL CROSCOPE	100 VIS N	1000 IBLE TO THE AKED EYE		
Filter Efficiency Fib Tor Ker The Dry Ult Bo	ra-Web¹ ra-Web¹ it-Tex² vlar/Nomex ermo-Tek vflo ra-Tek nDura dura-Tek							

- 1. Ultra-Web and Fibra-Web filter cartridges use nanofiber technology to provide an initial filtration efficiency of up to 10 times greater than conventional media.
- 2. Torit-Tex filter cartridges use Tetratex® PTFE membrane, which repels water while allowing air and moisture vapor to pass through the membrane's extremely small pores.

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