

## A Case for Ultra-Web® Cartridges

AIRPLUS Industrial provides innovative solutions industrial clean air and compressed air solutions across North America. We work with and represent only tier-one manufacturers to ensure that our customers benefit from top-quality products as well as cutting edge industry expertise.

With in-house engineering and mechanical services, AIRPLUS Industrial provides end-to-end services to our clients, allowing our customers to focus on their businesses while we provide their required industrial clean air and compressed air solutions.

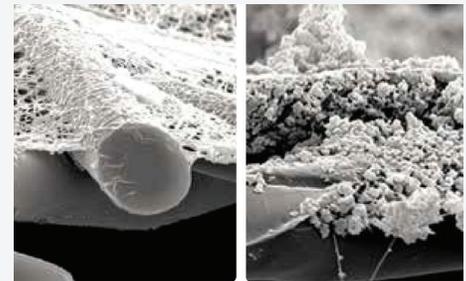
AIRPLUS Industrial represents the Donaldson Torit range of products. This paper highlights the multiple advantages to businesses of using Donaldson Torit's Ultra-Web® cartridges for their industrial dust collection requirements.

### AIRPLUS Industrial + Ultra-Web®

AIRPLUS Industrial offers Industrial Dust Control system design, dust collector installation and dust collector maintenance for all Canadian Industries.

Donaldson / Torit was the first filter manufacturer to introduce a Nano Fiber layer to filters when they introduced the Ultra-Web over 30 years ago. In Airplus' 30+ years of dust control experience, and over 20 years as Torit Representatives, we have found that overwhelmingly the standard Ultra-Web filter is the best value, \$ / CFM, on the market on overall maintenance costs. It has consistently outperformed every other filter we've used over a broad range of applications. We have even used it in counter-intuitive applications, like wood, where it should not outperform wider pleat Spun-bond filters, but does. We use the Ultra-Web as much as possible, both in Torit Dust Collectors, or competitive brand dust collectors.

For the absolute best results for our clients we use Donaldson Torit's proven and proprietary **Ultra-Web® technology**. This delivers longer filter life, cleaner air and greater cost savings than other types of cartridge filter media. Made with an electrospinning process that produces a very fine, continuous, resilient fiber of 0.2-0.3 micron in diameter, Ultra-Web® forms a permanent nanofiber web with very fine interfiber spaces that trap dust on the surface of the media. Donaldson Torit® has perfected their standard MERV 15\* rated Ultra-Web® filters to optimize filtration without sacrificing filter life or increasing pressure drop



Clean Ultra-Web Filter

Surface Loaded Ultra-Web Filter

### Target Industries

Ultra-Web® filters are available for all popular collectors. There is a filter for every brand and style of collector, with a wide range of filtration media for any application. Thousands of filters and parts are available in stock and are ready to ship. This implies that Ultra-Web® filters can be used wide variety of industries, such as:

- Food processing
- Pharmaceuticals
- Grain
- Lumber & Wood
- Mining
- Food
- Fabricated Metals
- Paper
- Pharmaceuticals
- Wastewater Treatment
- Cannabis

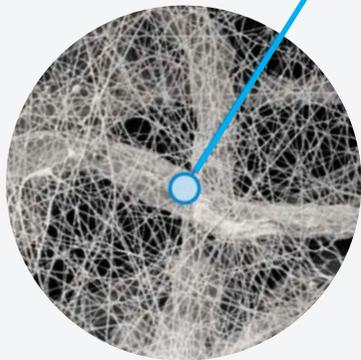
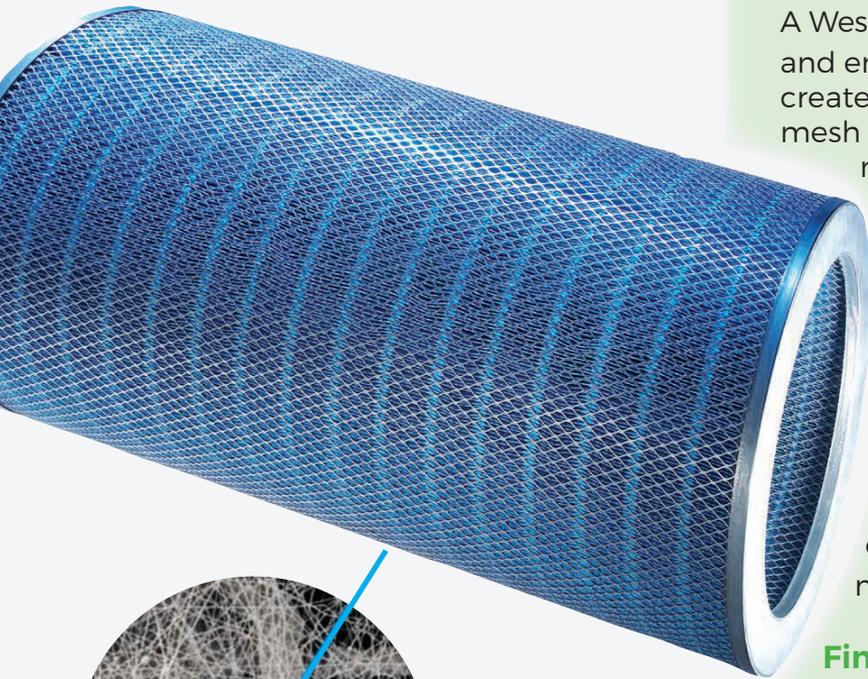


## What Ultra-Web® Filters result in

### Advantages of Using Ultra-Web® Filters

Using Donaldson Torit Ultra-Web® filters over cheaper, commonly-used-cellulose-based filters used in most cartridges provides distinct advantages, including:

- Longer filter life - Ultra-Web® Filters last 2 to 3 times longer in most applications
- Fewer production stops and less downtime caused by filter changeouts
- Fewer man-hours spent on filter changeouts



10 Micron  
Particulate  
at 600X

### Case-in-Point

#### Frequent Filter Changeouts

A Western US company making herbal powders and encapsulating them for the nutrition market creates dust in a broad range of sizes, from 40 mesh down to 0.2 microns. The maintenance manager determined that the filters in his 3 UAS (United Air Specialists) dust collectors needed replacing each month or sooner, and a solution had to be found.

#### Overwhelming the Cellulose-Based Filters

This plant ran 2 shifts, 5 days per week, and the dust from the encapsulating lines simply overwhelmed the competitor's cellulose filter (with nano technology) media in their collectors.

#### Finding the Solution

The maintenance manager contacted Donaldson Torit and replaced the cellulose-based media with **Ultra-Web® Nanofiber Technology**.

#### Successful Solution

**Ultra-Web® Nanofiber Technology** was the solution he was looking for, it provided a filter life of at least 3 times longer than the cellulose filters!

## What Makes Ultra-Web® Better

When used in self-cleaning dust collectors, Ultra-Web® filter cartridges are periodically cleaned with a pulse of clean air. The surface loading characteristics of the nanofiber layer allows for much of the collected dust to be removed easily during pulse cleaning.

### Energy-Cost Savings

The characteristics of the nanofiber layer allow for less compressed air to clean the cartridges, and cleaner filters result in reduced pressure drops across the filter. Energy cost savings are achieved by the reduced pressure drop and the lower volumes of compressed air required to clean the filters.

### Reduce Your Operational Costs with Ultra-Web®

Please contact the aftermarket team at AIRPLUS Industrial to see how Donaldson Torit Ultra-Web® filters can save you money and make your processing more efficient.

Learn more here: <https://www.youtube.com/watch?v=lgGhpXTCfjM>