CARTRIDGE

BEST APPLICATION:
- Fumes
- Powder
- Dust
- Silica
- Grain
- Seed
- Sawdust
- Very Fine Dust

TYPICAL PLEATS

HYBRID

BEST APPLICATION:
- Grain
- Seed
- Sawdust
- Food
- Medium Dust

OPEN PLEATS

FILTER BAG

BEST APPLICATION:
- Food
- Feed
- Coarse
- Heat
- Fiber
- Sticky
- Large or Sticky Dust

NO PLEATS

CARTRIDGE MEDIA MATERIAL

**DELTAMAXX™ 80/20 CELLULOSE/POLYESTER**

- MERV 10
  - 3 - 1 Microns

**DELTAMAXX™ 8 oz SPUNBOND POLYESTER**

- MERV 11
  - 3 - 1 Microns

**DELTAMAXX™ NANOFIBER**

- MERV 15
  - 1 - 0.3 Microns

Human Hair Thickness = 80-100 Microns

Pollen = 30 Microns

Household Dust = 10 Microns

Pet Dander = 5 Microns

Weld Fume Particle = 1 Micron

<table>
<thead>
<tr>
<th>Microns</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>40 Microns</td>
<td>Invisible to the human eye</td>
</tr>
<tr>
<td>0.3 Microns</td>
<td></td>
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</tbody>
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©
UP TO TWICE THE FILTER LIFE

Most Advanced Nanofiber Technology
The Nanofiber surface stops sub-micron particles from entering and becoming embedded into the media beneath the Nanofiber.

Reduced Dust Collector Operational Costs

Lower Operational Mass Emissions

Less Pulse Cleaning
Dust is easily pulsed off of the Nanofiber media because it remains on the surface.

Industry’s Best Surface Loading Technology
Enhances dust cake release, leading to longer filter life.

FILTER EFFICIENCY

THE LESS PLUSES THE BETTER

<table>
<thead>
<tr>
<th></th>
<th>DAY 1</th>
<th>DAY 2</th>
<th>DAY 3</th>
<th>DAY 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Pulses</td>
<td>1000</td>
<td>2000</td>
<td>3000</td>
<td>4000</td>
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</tbody>
</table>

THE LESS EMISSIONS THE BETTER

<table>
<thead>
<tr>
<th></th>
<th>DAY 1</th>
<th>DAY 2</th>
<th>DAY 3</th>
<th>DAY 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grams of Dust</td>
<td>0</td>
<td>10</td>
<td>20</td>
<td>30</td>
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</tbody>
</table>

SUMMARY OF RESULTS

<table>
<thead>
<tr>
<th></th>
<th>CELLULOSE BLEND 325 SQ. FT.</th>
<th>MELT BLOWN 325 SQ. FT.</th>
<th>DELTAMAXX NANOFIBER 350 SQ. FT.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EMISSIONS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Emissions</td>
<td>126,735</td>
<td>11,825</td>
<td>2,560 mg</td>
</tr>
<tr>
<td>Average Emissions/Hour</td>
<td>1,320</td>
<td>123</td>
<td>27 mg/hour</td>
</tr>
<tr>
<td>Emissions Before 1st Pulse</td>
<td>185</td>
<td>10</td>
<td>10 mg</td>
</tr>
<tr>
<td>Average Emission/Pulse</td>
<td>9.84</td>
<td>1.09</td>
<td>1.65 mg/pulse</td>
</tr>
</tbody>
</table>

|                  |                             |                        |                                 |
| **PULSE CLEANING** |                           |                        |                                 |
| Time to First Pulse | 1.40                     | 1.07                   | 1.01 hours                     |
| Total Number of Pulses | 12,861                    | 10,874                 | 1,545 pulses                   |
| Average Pulses/Hour    | 134                       | 113                    | 16 pulses                      |
FIRE RETARDANT FILTERS

WHAT MAKES A FILTER FIRE RETARDANT?

To make our FR filters, the filter media runs through a bath of a special coating. After its dipped in this solution, the media dries and then gets pleated and made into filters. This process makes sure that the fire retardant coating completely covers all of the filter media.

As you can see in our test photos below, our FR filters resist fire even when a flame is applied directly to it. If they can stand up to this treatment, you can be confident that they will resist sparks and fire in your application.

FIRE-RETARDANT OR REGULAR NANOFIBER?

Not all applications require an FR filter. Some applications where FR is recommended:

- Any type of metal dust or fume
- Any process that generates sparks
- Any dust that is highly combustible

As you can see below, a filter without the FR coating won’t hold up very well when exposed to flame:

DUST COLLECTOR FIRES

Dust collector fires happen all the time. Our service team has been on-site in the aftermath of these fires, and what they pull out of the collector is this: burned-up filters that fueled the fire instead of controlling it.

Burning filters inside your collector doesn’t just waste a set of filters; you can have serious (and expensive) damage to your collector. As you can see in our test, a spark or flame that gets into a collector has less of a chance with FR filters getting them to burn. FR filters help stop a collector fire instead of acting as fuel.
OVERBAGS

Nylon Mesh Overbags are used to keep large, fibrous dust or lint and debris out of the filter pleats. Improves filter life and protects filters from damage.

Overbags are easy to install and attach to the filter using a bungee cord and zip-tie.

DeltaMAXX filters have exceeded our expectations on what to expect regarding filter quality and pricing.

— Donnie B., Major Metal Fabrication Industry
**DeltaMAXX Filters**

DeltaMAXX Dust Collector Cartridge Filters are manufactured for all makes and models of cartridge dust collectors.

Regardless of the nature of your dust collection and air pollution control application, Imperial Systems Inc. has the answer for all of your cartridge filtration needs.

**Imperial Systems CMAXX**
- Donaldson Torit
- Farr APC
- Robovent
- Lincoln Electric
- Messer
- AAF
- UAS
- Airflow Systems
- Flex-Kleen
- MAC
- Micro Air
- Pneumafil
- Sly
- Steelcraft
- Trion
- Avani
- Plymovent
- & more...
FILTER SERVICE & TROUBLESHOOTING

- System Inspection
- Cartridge Filter Change-out
- Baghouse Filter Change-out
- Preventative Maintenance
- System Balance
- Dye Testing

INSPECTION

There’s a major advantage to having professionals do your filter changes for you. Our ServiceMAXX team doesn’t just change filters. They also inspect them, check for leaks or other problems, conduct dye testing, and make sure your system is working properly. Having the ServiceMAXX team change your filters means that if there is a problem, you’ve already got exactly the right people there to identify it and fix it.

To discover a filter leak ServiceMAXX runs a Dye Test. The dye will glow under a UV light.