

# PTFE LAMINATED SPUNBONDED 100% POLYESTER CARTRIDGE FILTER



## HIGH DUST COLLECTION EFFICIENCY FILTER CARTRIDGE

The PTFE laminated spunbonded 100% polyester cartridge filter consists of a membrane of PTFE (Polytetrafluoroethylene) laminated over a spunbonded polyester substrate that results in a microporous surface. Providing 99.99% efficiency at 0.2 to 2 micron, it is the ideal choice for ultra-fines and/or high moisture conditions and applications requiring high collection efficiency.

This PTFE laminated filter has a MERV rating of 16 and a temperature rating of 200 °F [93 °C] (in a continuous operation) resulting in better filter efficiency and longer filter life. The open pleat structure offers more filter media than standard filter bags reducing the number of filters your system requires and saving you time and money. In addition to the ease of changing out the filter, using this cartridge filter in your dust collection system makes it a safe and reliable emissions solution.

### TYPICAL BULK MATERIALS PROCESSED

- Powder
- Activated Carbon (PAC)
- Soda Ash
- Fly Ash
- Sugar
- Lime
- Trona
- Cement
- Others

### TYPICAL APPLICATIONS

- Moist Agglomerative Dust Applications
- Water Treatment
- Food
- Chemical Processing
- Mining
- Grain Handling
- General Industrial
- Oil and Gas
- Glass and Ceramics
- Pulp and Paper
- Pharmaceutical
- Powder Coating

### FEATURES

### BENEFITS

Non-stick "Teflon" surface	Improves surface loading and dust release
Hydrophobic, PTFE membrane	Performs exceptionally well in moist agglomerative dust applications
MERV 16 Rating	Provides excellent submicron filtration efficiency resulting in longer filter life
Open pleat structure	Excellent dust release making pulse cleaning more effective
Excellent dust cake release even under moist, humid conditions	Minimizes blinding increasing filter life
High burst strength and increased dimensional stability	Can be used with moist air, oil contaminants, heat, chemicals or abrasive dusts
Excellent abrasion and moisture resistance	Extends the cartridge lifecycle for better return on investment
Good permeability	Reduces energy consumption
No linting	Eliminates contamination
Stainless steel components (optional)	Enhances durability and is suitable for use in hygienic applications

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## SPECIFICATIONS

### MEDIA COMPOSITION

- **Substrate:** Spunbonded 100% Polyester
- **Finish:** Calandered and Heat Set with PTFE Membrane Laminate
- **Tensile Strength (2" [51mm] Strip):**
  - 225 lbs. [1000 N] (X-direction)
  - 230 lbs. [1023 N] (Y-direction)

### MEDIA PERFORMANCE DATA

- **Temperature Resistance:**
  - Operating Temp: 275 °F [135 °C] (Fabric)
  - Continuous: 200 °F [93 °C] (Filter Element)
- **Thermal Stability:** 2% @ 275 °F [135 °C]
- **Chemical Tolerance:**
  - Acids → Fair
  - Bases → Good
  - Oxidants → Good
  - Solvents → Good
  - Hydrolysis → Fair
- **Abrasion Resistance:** Excellent
- **Air Permeability:** 6 to 8 CFM/ft<sup>2</sup> [110 to 146 m<sup>3</sup>/h/m<sup>2</sup> @ 125 Pa]
- **Mullen Burst:** 390 psi [2689 kPa]

## AVAILABILITY

**DCC 200 or DCC 280:** Set of four cartridge filters  
(200 ft<sup>2</sup> [18.6 m<sup>2</sup>] / 50 ft<sup>2</sup> [4.6 m<sup>2</sup>] per filter) OR  
(280 ft<sup>2</sup> [26.0 m<sup>2</sup>] / 70 ft<sup>2</sup> [6.5 m<sup>2</sup>] per filter)

**DCC 300 or DCC 420:** Set of six cartridge filters  
(300 ft<sup>2</sup> [27.9 m<sup>2</sup>] / 50 ft<sup>2</sup> [4.6 m<sup>2</sup>] per filter) OR  
(420 ft<sup>2</sup> [39.0 m<sup>2</sup>] / 70 ft<sup>2</sup> [6.5 m<sup>2</sup>] per filter)

**Other options available upon request**

## IMPORTANT NOTICE

*The information contained in this product data sheet is, to the best of our knowledge, true and accurate. As application-specific factors may impact performance, users are advised to evaluate the product independently to determine suitability for the intended application and use conditions. Product availability and specifications are subject to change without notice.*

### MEDIA EFFICIENCY

- **U.S. Efficiency Rating:** MERV 16
- **European Efficiency Rating:**
  - 99.99% efficiency, 0.2 to 2 micron
  - BIA Rating U.S.G. & C.

### CARTRIDGE COMPOSITION

- **Standard Construction:**
  - Wide pleat spacing
  - Galvanized metal end caps
  - Galvanized expanded metal liner
  - Neoprene gasket
- **Options:**
  - Stainless steel liner and metal caps
  - Stainless steel expanded metal liner
  - Variety of gasket materials available

## LET US HELP PROVIDE A SOLUTION FOR YOUR NEEDS.

For over 50 years, STT has been designing and installing lime slaking and bulk material handling systems. What makes STT different is our diverse experience in many applications, industries and chemicals, along with the ability to support systems from concept through to decommissioning, and everything in between. To speak with one of our experts, contact us at:

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