



DFX™ Series – Dust Filtration Excellence Built for Industrial Demands

DFX-PE™ – Polyester Dust Filter Bags Product Highlights

FiltraCore Asia's DFX-PE™ Polyester Dust Filter Bags are engineered for **dependable dry dust collection** in standard industrial baghouse systems requiring **stable airflow, consistent particulate capture, and cost-effective lifecycle performance**. Manufactured from **polyester needlefelt**, DFX-PE™ offers a practical balance of filtration efficiency, dust cake release, dimensional stability, and mechanical durability for continuous service in **dry, neutral to mildly alkaline environments**.

Designed for continuous operation up to **135 °C**, with short term peaks up to **150 °C**, DFX-PE™ is well suited for general industrial dust collection where specialised high temperature or chemical resistant media is not required. Polyester provides good abrasion resistance, mechanical strength, and reliable dry dust performance, while moist, acidic, alkaline, or hydrolysis prone conditions should be reviewed carefully before selection.

DFX-PE™ is available in multiple sewn constructions, sizes, finishes, and mounting configurations for **pulse jet, shaker, reverse air, and other industrial dust collector systems**. Finish options include **singed, glazed, calendered, heat set, oil and water repellent, antistatic, and PTFE membrane laminated** variants. **Antistatic variants for ATEX compliant environments are available**, subject to proper media selection, grounding, bonding, and site safety requirements, with typical surface electrical resistance in the range of **10⁴ to 10⁵ Ω** depending on media design and operating conditions.

Typical applications include **woodworking and furniture manufacturing, grain handling and milling, food processing in dry zones, cement grinding and minerals processing, steel fabrication and metalworking, packaging lines, powder handling, and general industrial dust control**.

DFX-PE™ is manufactured in **OEM equivalent constructions** for compatibility with dust collection systems using Filter Housings and baghouse designs from **Donaldson®, AAF®, Parker Hannifin®, BWF® Envirotec**, and other global suppliers. **Pleated polyester options** are available for space constrained systems requiring increased filtration area, lower air to cloth ratio, and extended service life. **Food contact compliant variants are available on request** where supported by selected media and documentation requirements, including **FDA 21 CFR and EU 1935/2004 & 10/2011**.

For procurement teams, DFX-PE™ represents a **durable, cost effective, readily available, and technically reliable polyester dust bag platform** for everyday industrial dust collection applications.

Resilient. Thermally Stable. Trusted in Demanding Dry Filtration.

Applications - DFX-PE™ – Polyester Dust Filter Bags

DFX-PE™ Polyester Dust Filter Bags are widely applied in **standard dry dust collection environments** where moderate operating temperatures, stable airflow, and neutral dust conditions are required. Manufactured from polyester needlefelt, DFX-PE™ provides a practical balance of **mechanical strength, dust cake release, cost efficiency, and baghouse compatibility** across everyday industrial dust collection systems.

- **Woodworking & Furniture Manufacturing:** Reliable capture of sawdust, sanding dust, routing dust, and fine wood particulates in dry extraction systems, supporting cleaner production areas and stable dust collector performance.
- **Grain Handling & Milling:** Dust control for silos, conveyors, transfer points, feed processing, and dry ingredient handling. **Antistatic variants are available for ATEX compliant environments** where combustible dust risk assessment requires static dissipation support, subject to correct grounding, bonding, and system safety controls.
- **Cement Grinding & Minerals Processing:** Collection of cement dust, limestone dust, mineral fines, and other dry abrasive particulates in moderate temperature systems where polyester needlefelt provides a cost-effective balance of durability and filtration performance.
- **Steel Fabrication & Metalworking:** Filtration support for dry grinding dust, cutting dust, polishing dust, and cooled metal particulates, subject to proper spark control, temperature management, and system design.
- **General Industrial Dust Collection:** Suitable for manufacturing plants, packaging lines, powder handling areas, material transfer systems, and general dry process ventilation where dependable polyester dust bags are required for routine dust control.

In these settings, DFX-PE™ offers **dependable service life, cost efficient operation, flexible construction options, and compatibility with existing baghouse systems**, making it a reliable procurement choice for a broad spectrum of standard industrial dust collection applications.

OEM Compatibility & Replacement Cross-Reference

DFX-PE™ Polyester Dust Filter Bags are engineered as OEM-equivalent replacements¹ for standard baghouse systems and can be supplied to fit:

- **Donaldson® Torit®** baghouse collectors (polyester felt media)
- **AAF® FabriPulse®** polyester bags
- **Parker Hannifin® BHA®** filter bags (polyester variants)
- **BWF®** Envirotec polyester ranges
- **Nederman MikroPul®** dust collector systems
- **Sly Inc.® TubeJet®** and other polyester-compatible designs

Other compatible OEM systems upon request

Order Information - DFX-PE™ – Polyester Dust Filter Bags

When placing an order for DFX-PE™ Polyester Dust Filter Bags, please specify the following:

- **Bag Diameter:** Standard diameters include 120 mm (4.7"), 125 mm (4.9"), 130 mm (5.1"), 150 mm (5.9"), and 160 mm (6.3"); other diameters are available on request
 - **Bag Length:** Standard lengths from 1,000 mm (39.4") to 6,000 mm (236.2"); extended lengths are available upon request
 - **Media Type:** Polyester needlefelt, with basis weight typically 500–550 g/m², depending on filtration duty and dust loading
 - **Finishes & Treatments:** Singed, glazed, calendered, heat set, oil and water repellent, antistatic, and PTFE membrane laminated options are available
 - **Antistatic Requirement:** Conductive antistatic variants are available for ATEX compliant dust collection environments, with typical surface electrical resistance in the range of 10⁴ to 10⁵ Ω, subject to media construction, test method, humidity, grounding, bonding, and site operating conditions
 - **Top Options:** Snap band, raw cuff, corded cuff, compression cuff, flange collar, ring top, or other OEM equivalent top constructions
 - **Bottom Options:** Sewn disc bottom as standard; reinforced bottoms, double layer bottoms, wear pads, and abrasion protection options are available for higher wear environments
 - **Seam Construction:** Sewn with high strength polyester or aramid thread, with double or triple stitched seam options depending on temperature, cleaning intensity, and mechanical duty
 - **Cage Compatibility:** Designed for use with standard round or oval support cages; venturi compatible where required for pulse jet systems
 - **Operating Conditions:** Continuous service up to 135 °C, with short term peaks up to 150 °C; best suited for neutral, dry dust environments with limited moisture and chemical exposure
 - **Compliance:** OEM equivalent designs available; food contact compliant variants available on request where supported by selected media and documentation requirements, including FDA 21 CFR and EU 1935/2004 & 10/2011
 - **Add Ons:** Wear pads, anti-collapse rings, top load guides, reinforced cuffs, spark resistant cuff options, and customised mounting details
 - **Pleated Option:** Available for space constrained systems where increased filtration surface area, reduced differential pressure, and extended service intervals are required
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¹ Always verify compatibility of bag design (top/bottom configuration, media weight, finish) with existing dust collector systems. OEM names are for cross-reference only and do not imply affiliation or endorsement.

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