



DFX™ Series – Dust Filtration Excellence Built for Industrial Demands

DFX-PPS™ – PPS (Polyphenylene Sulfide) Dust Filter Bags Product Highlights

Filtracore Asia's **DFX-PPS™ Dust Filter Bags** are manufactured from **100% Polyphenylene Sulfide (PPS/Ryton®) needlefelt**, engineered to withstand **continuous operation up to 190 °C** with peak tolerance to 200–220 °C. PPS combines **exceptional resistance to acids,**

alkalis, and oxidising agents with strong hydrolysis stability, making it a leading choice for **corrosive and high-temperature dust environments.**



With **robust dimensional stability, long service life, and consistent low-emission performance,** DFX-PPS™ delivers reliability where conventional polyester, acrylic, or aramid media fail prematurely. It is particularly effective in baghouse systems exposed to **acid gases, high moisture, or chemical-rich flue streams.**

DFX-PPS™ is available in **standard formats**, designed to fit pulse-jet, shaker, and reverse-air dust collectors. These bags are supplied in **OEM-equivalent constructions**, ensuring compatibility with systems from **Donaldson®, AAF®, Parker Hannifin®, BWF® Envirotec, FLSmidth®, and other global suppliers.**

Thermochemical Durability. Long-Term Stability. Optimized for Harsh Environments.

Applications - DFX-PPS™ – PPS (Polyphenylene Sulfide) Dust Filter Bags

DFX-PPS™ Dust Filter Bags are widely applied in high-temperature and chemically aggressive environments, where standard media fail due to corrosion, moisture, or thermal stress. Typical applications include:



- **Coal-Fired Boilers & Power Utilities** – reliable performance under acid gas and high-particulate load conditions
- **Waste-to-Energy Plants & Incinerators** – effective resistance to SO_x, NO_x, and HCl in corrosive flue gas streams
- **Cement Kilns & Lime Plants** – stable operation under variable temperatures and acidic exhaust gases
- **Smelting & Metallurgical Operations** – handles hot, corrosive particulates with extended service life
- **Chemical Processing Plants** – suitable for aggressive vapours and process dust containing acids and alkalis
- **Biomass & RDF Boilers** – resilient against high moisture and acidic organic by-products

In these environments, **DFX-PPS™** offers predictable service life, low emissions, and reduced maintenance costs, making it a preferred procurement choice for plants facing corrosive or high-moisture conditions.

OEM Compatibility & Replacement Cross-Reference

DFX-PPS™ Dust Filter Bags are engineered as OEM-equivalent replacements¹ for high-temperature and chemically resistant baghouse systems and can be supplied to fit:

- **Donaldson® Torit®** baghouse collectors (PPS/Ryton® media options)
- **AAF® FabriPulse®** PPS dust bags
- **Parker Hannifin® BHA®** filter bags (PPS media)
- **BWF®** Envirotec PPS needlefelt bags
- **FLSmidth®** and **GE Environmental®** high-temp baghouse systems
- **Nederman MikroPul®** PPS-compatible designs
- **Sly Inc.® TubeJet®** and other high-temperature OEM systems



Other compatible OEM systems upon request

Order Information - DFX-PPS™ – PPS (Polyphenylene Sulfide) Dust Filter Bags

- **Bag Diameter:** Standard diameters 120 mm, 125 mm, 130 mm, 150 mm, and 160 mm; custom diameters available on request
- **Bag Length:** 1000 mm to 6000 mm standard; extended lengths available on request
- **Media Type:** 100% PPS (Polyphenylene Sulfide / Ryton®) needlefelt, basis weight 500–600 g/m²
- **Finishes & Treatments (optional):** Singed, calendered, PTFE-coated, PTFE membrane laminated, oil & water repellent
- **Top Options:** Snap band, raw cuff, corded cuff, compression cuff, flange collar, or ring top
- **Bottom Options:** Sewn disc (standard); reinforced bottoms or wear pads for abrasive environments
- **Seam Construction:** Sewn with PTFE or aramid thread; double or triple stitched for high-load conditions
- **Cage Compatibility:** Designed for use with standard round or oval cages; venturi options available
- **Operating Conditions (recommended):** Continuous up to 190 °C, short-term peaks 200–220 °C; suited for acidic, alkaline, and high-moisture dust environments
- **Compliance:** OEM-equivalent constructions; food-contact compliant variants available on request (FDA 21 CFR; EU 1935/2004 & 10/2011)
- **Add-Ons:** Wear pads, anti-collapse rings, top-load guides, spark-resistant cuffs
- **Pleated Option[#]:** Available to increase surface area, reduce pressure drop, and extend service life

¹ Compatibility claims are based on filter media type, dimensional fit, and construction format (snap band, flange, etc.). Always confirm critical fitment dimensions, end cap styles, and chemical exposure conditions prior to installation. For systems operating under regulated compliance (e.g., ATEX, IECEx, NEC Class II), final compatibility and performance validation should be reviewed with qualified plant or safety engineers.

[#] Pleated variants of this media are sometimes promoted but are not considered commercially reliable due to fibre and service-life limitations. FiltraCore Asia supplies only proven bag constructions in line with global OEM standards.

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