



DFX™ Series – Dust Filtration Excellence Built for Industrial Demands

DFX-P84™ – P84® Polyimide Dust Bags Product Highlights

Filtracore Asia's **DFX-P84™ Polyimide (P84®) Dust Filter Bags** are engineered for **demanding high-temperature filtration** where fine particulate capture and low emissions are critical. Constructed from **100% polyimide felt (P84®)**, the unique tri-lobal fibre geometry provides an **enlarged surface area**, ensuring **superior dust retention, minimal emissions, and stable pressure drop** throughout service life.

Designed for **continuous operation at 240 °C** with short-term peaks up to 260 °C, DFX-



P84™ delivers **excellent chemical resistance against acidic gases** such as SO_x, NO_x, and HCl. However, the media is not recommended for alkaline or high-moisture conditions due to limited hydrolysis resistance.

DFX-P84™ is ideally suited for **waste incineration, cement kilns, and coal-fired boilers**, where emission regulations and operational uptime are critical. These bags reduce change-outs and provide cost-effective performance for procurement teams managing **stringent**

environmental compliance and operational reliability.

The series is available in **OEM-equivalent constructions** for pulse-jet, shaker, and reverse-air collectors, fitting housings from **Donaldson®, AAF®, Parker Hannifin®, BWF® Envirotec, FLSmidth®, and other global suppliers**. Custom lengths, diameters, and surface treatments are available to meet site-specific needs.

Built for Heat. Proven in Corrosion. Trusted by Industry.

Applications - DFX-P84™ – P84® Polyimide Dust Bags

DFX-P84™ Polyimide Dust Filter Bags are widely applied in high-temperature processes requiring strict dust emission control and fine particulate capture. Typical applications include:

- **Waste Incineration Plants** – ensures compliance with stringent emission limits by capturing fine particulates and acidic flue dust
- **Cement Kilns** – clinker coolers and kiln exhaust systems where fine dust and corrosive gases are present
- **Coal-Fired Boilers & Utilities** – effective against fly ash and acidic gas streams at elevated temperatures
- **Chemical Processing Plants** – filtration of corrosive gas streams containing SO_x, NO_x, and HCl
- **Biomass & RDF Boilers** – where acidic combustion by-products require reliable acid-resistant media



In these environments, **DFX-P84™** provides extended service life, low particulate emissions, and consistent performance, helping procurement teams manage operational costs while meeting environmental regulations.

OEM Compatibility & Replacement Cross-Reference

DFX-P84™ Polyimide Dust Filter Bags are engineered as OEM-equivalent replacements¹ for high-temperature baghouse systems and can be supplied to fit:

- **Donaldson® Torit®** high-temperature baghouse collectors
- **AAF® FabriPulse®** systems with polyimide (P84®) media
- **Parker Hannifin® BHA®** filter bags (polyimide variants)
- **BWF® Envirotec P84®** ranges
- **FLSmidth®** kiln and process baghouse systems
- **Nederman MikroPul®** high-temperature collectors
- **Sly Inc.® TubeJet®** and other polyimide-compatible systems

Other compatible OEM systems upon request



Order Information - DFX-P84™ – P84® Polyimide Dust Bags

When placing an order, please specify the following:

- **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% Polyimide Felt (P84®); basis weight typically 500–600 g/m²
- **Finishes & Treatments (optional):** PTFE membrane, graphite or silicone coating, oil & water repellent surface
- **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 high-temperature threads (PTFE or aramid); double or triple stitched
- **Cage Compatibility:** Round or oval cages; venturi-equipped cages compatible
- **Operating Conditions (recommended):** Continuous 240 °C; peaks up to 260 °C; best suited for acidic gas streams and fine particulate capture
- **Compliance:** Supplied in 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

¹DFX-P84™ filter bags are suitable for continuous operating temperatures up to 240°C (464°F) and peak spikes up to 260°C (500°F). They are widely used in cement kilns, incineration plants, and fluidized bed combustion systems. Always confirm cage fit and chemical exposure compatibility before deployment.

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.

All OEM product names are trademarks of their respective holders. Use of these names does not imply affiliation or endorsement. Images shown have been professionally enhanced for visual clarity. Actual product details and appearance may differ.



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