



## DFX™ Series – Dust Filtration Excellence Built for Industrial Demands

### DFX-ACR™ – Acrylic Dust Filter Bags Product Highlights

Filtracore Asia's **DFX-ACR™ Acrylic Dust Filter Bags** are designed for mid-temperature dust collection where polyester and polypropylene filters fail to deliver long-term performance. Constructed from **homopolymer acrylic needlefelt**, they provide reliable operation in continuous service up to **120 °C**, with short-term peak tolerance to **150 °C**. This makes them a dependable solution for plants operating under variable heat conditions.



These bags are especially effective in environments containing acidic gases, organic acids, and moisture, offering **superior resistance to hydrolysis** compared to polyester. While they maintain moderate tolerance to alkaline particulates, their true strength lies in resisting chemical degradation that commonly shortens the lifespan of conventional filter media. The result is **longer service life, reduced bag changeouts, and consistent low-emission performance** when paired with the correct surface finish.

DFX-ACR™ is compatible with **pulse-jet, shaker, and reverse-air dust collectors**, and can be engineered in both **standard bag format and pleated construction**. Pleated versions provide higher surface area, lower pressure drop, and longer service intervals, but are recommended only where system conditions support their use.

Engineered as **OEM-equivalent replacements**, DFX-ACR™ bags integrate seamlessly into housings from **Donaldson®, AAF®, Parker Hannifin®, BWF® Envirotec, Clarcor®/BWF®, Nederman MikroPul®, and others**. **Custom sizes, top and bottom configurations, and surface finishes are also available** to meet retrofit or upgrade requirements. *Food-contact compliant variants are available (FDA 21 CFR; EU 1935/2004 & 10/2011).*

**Mid-Temp Toughness. Chemical Stability. Precision Fit.**

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## Applications - DFX-ACR™ – Acrylic Dust Filter Bags

**DFX-ACR™ Acrylic Dust Bags** are suited for mid-temperature dust collection where acidic gases, organic vapours, and moisture are present. Typical applications include:

- **Industrial Boilers** – Coal, biomass, and oil-fired units with high moisture and acidic flue gases
- **Fertilizer Plants** – Acidic gas environments and sticky dust conditions
- **Chemical Processing** – Acidic dust collection with moderate alkali tolerance
- **Foundries (Ancillary Systems)** – Mid-temperature flue gas and secondary dust streams
- **Food & Starch Processing** – Acidic vapours and moisture-rich dust collection; food-contact compliant variants available
- **Biomass & RDF Boilers** – Resistance to organic acids and hydrolytic particulate environments
- **Coal-Fired Utilities (Scrubbed Streams)** – Acidic and moisture-laden exhaust downstream of scrubbers
- **Waste Incineration (Cooled/Conditioned Gas)** – Secondary filtration where gas streams are temperature-controlled




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## OEM Compatibility & Replacement Cross-Reference

**DFX-ACR™ Acrylic Dust Filter Bags** are offered in OEM-compatible constructions<sup>1</sup> for cylindrical baghouse systems and can be supplied to fit:

- **Donaldson® Torit®** baghouse collectors
- **AAF® FabriPulse®** acrylic needlefelt bags
- **Parker Hannifin® BHA®** filter bags (acrylic media)
- **BWF® Envirotec CEM-A™** acrylic bags
- **Nederman MikroPul®** baghouse collectors
- **Sly Inc.® TubeJet®** systems

*Other compatible OEM systems upon request*



## Order Information - DFX-ACR™ – Acrylic Dust Filter Bags

When placing an order, please specify the following:

- **Bag Diameter:** Standard sizes include 120 mm, 125 mm, 130 mm, 150 mm, and 160 mm (custom diameters available)
- **Bag Length:** 1000 mm to 6000 mm standard; longer lengths available upon request.
- **Media Type:** Homopolymer acrylic needlefelt (typical basis weight: 500–550 g/m<sup>2</sup>)
- **Finishes & Treatments:** Options include oil & water repellent, PTFE membrane laminated, and calendered or singed surfaces for stability and cake release
- **Top Options:** Snap band, flange collar, raw cuff, corded cuff, compression cuff, or ring/strap tops
- **Bottom Options:** Sewn disc (standard); wear pads or reinforced bottoms available for abrasion protection
- **Cage Compatibility:** Please provide cage specifications or OEM references for precise fitting
- **Operating Conditions:** Specify maximum temperature, dust type, and target air-to-cloth ratio for correct media selection
- **Pleated Format (Optional):** Available for increased surface area and lower differential pressure; best suited for controlled cleaning cycles and stable operating conditions



<sup>1</sup> Compatibility is based on dimensional and construction equivalency. Brand and model names are used strictly for identification; all trademarks belong to their respective owners. DFX-ACR™ bags are not manufactured by or affiliated with the listed OEMs. Final suitability must be confirmed for each installation, including media selection, operating conditions, and system requirements.

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