

P84 (Polyimide) High-Temperature Filter Bag

Polyimide needle felt with a multilobal fibre profile for fine-dust collection. Select the fibre source, scrim and finish for the actual temperature, moisture and chemical environment.

MEDIA & OPERATING REFERENCES

TECHNICAL PROPERTY	REFERENCE / REQUIREMENT	CONDITIONS / NOTES
Media family	Polyimide needle felt	Fibre source and scrim confirmed per order
Nominal areal weight	500 g/m ²	14.75 oz/yd ² ; catalogue reference
Nominal media thickness	2.0 mm	0.079 in; catalogue reference
Air permeability	Confirm for selected grade	Numerical range, test pressure and method required
Continuous reference temperature	240 °C / 464 °F	Catalogue reference; actual limit depends on gas conditions
Short-term peak reference	260 °C / 500 °F	Fibre-maker reference; confirm duration for finished bag
Reference finish	Heat stabilized and singed	Additional PTFE / membrane construction requires confirmation

CHEMISTRY & MOISTURE

Review water content, acids, alkalis and oxidizing species at the actual operating temperature. Qualitative resistance descriptions do not establish a universal chemical or hydrolysis guarantee.

SELECTION & CONSTRUCTION

Polyimide may be considered where another media's temperature or oxidation limits are unsuitable. Confirm the full gas composition, bag / cage fit and cleaning duty before substituting it for PPS or aramid.

SELECTION NOTE: 260 °C is retained as a peak reference from Evonik's P84 filtration literature. Its hydrolysis comparison at 170 °C and 50 vol% moisture is not a guarantee for every moisture level at the continuous-temperature reference.

Order acceptance: confirm media / scrim, finish, weight and thickness tolerances, numerical air permeability and test pressure, tensile / elongation and heat-shrinkage requirements, and peak-temperature duration / frequency. Inspection scope and reports must be agreed with the quotation.

P84 fibre reference: Evonik, P84 Polyimide Fibres for High Temperature Filtration; service-temperature and hydrolysis sections.

REQUEST A FILTER BAG QUOTE

Send bag diameter and length, top / bottom details, tubesheet hole and plate thickness, cage dimensions, dust and gas conditions, cleaning method and quantity. Photos, a sample or an old part number are useful when no drawing is available.

Submit dimensions / RFQ

admin@filterbagworks.com

Values identified as catalogue references support initial selection only. Final suitability, dimensions and acceptance criteria are confirmed for the selected construction and operating conditions in the quotation / approved specification.