

TECHNICAL DATA SHEET

PTFE (Polytetrafluoroethylene) Needle Felt TF

PTFE staple on PTFE scrim

DESCRIPTION

The benchmark for chemical resistance. Handles acids, alkalis and oxidizing flue gas across the full spectrum, and the non-stick surface releases dust cleanly.

TYPICAL APPLICATIONS

Hazardous-waste incineration · secondary steel fume · chemical plants · SCR / DeNOx tail gas · pharmaceutical API.

PHYSICAL & MECHANICAL PROPERTIES

PROPERTY	UNIT	TYPICAL VALUE	TEST METHOD
Mass per unit area	g/m ²	750 – 850	ISO 9073-1 / GB/T 24218.1
Thickness	mm	1.0 – 1.2	ISO 9073-2 / GB/T 24218.2
Air permeability	L/dm ² /min	180 – 260	ISO 9237 / GB/T 5453, @ 200 Pa
Breaking strength, warp / weft	N	≥ 1200 / ≥ 1200	ISO 13934-1 / GB/T 3923.1
Thermal shrinkage	%	≤ 1	3 h at rated continuous temperature

SERVICE TEMPERATURE & CHEMICAL RESISTANCE

CONTINUOUS ≤ 250 °C	PEAK / SURGE 280 °C
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Acid ★★★ Alkali ★★★ Hydrolysis ★★★ Oxidation ★★★

★★★ excellent · ★★ good · ○ limited

SURFACE TREATMENTS AVAILABLE

Singeing · calendering · heat setting · ePTFE membrane lamination

SUPPLY

Supplied as roll goods or as finished filter bags made to the customer's drawing — any diameter and length, with snap-ring, sewn cuff or clamp-band top and a choice of bottom construction. Cages, venturis and accessories can be supplied with the bags. Please refer to the corresponding filter-bag data sheet.