

TECHNICAL DATA SHEET

PPS (Polyphenylene Sulfide) Needle Felt PS

PPS staple on PPS scrim

DESCRIPTION

The industry standard for high-sulfur flue gas. Excellent chemical stability with strong retention of tensile strength at elevated temperature.

TYPICAL APPLICATIONS

Coal-fired boilers · waste incinerators · cement kilns · glass furnaces · steel sintering.

PHYSICAL & MECHANICAL PROPERTIES

PROPERTY	UNIT	TYPICAL VALUE	TEST METHOD
Mass per unit area	g/m ²	500 – 600	ISO 9073-1 / GB/T 24218.1
Thickness	mm	1.8 – 2.2	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	≥ 900 / ≥ 1200	ISO 13934-1 / GB/T 3923.1
Thermal shrinkage, warp / weft	%	≤ 1 / ≤ 1.5	3 h at rated continuous temperature

SERVICE TEMPERATURE & CHEMICAL RESISTANCE

CONTINUOUS

≤ 190 °C

PEAK / SURGE

220 °C

Acid ★★★ Alkali ★★★

★★★ excellent · ★★ good · ○ limited

Note. Oxygen limitation: in high-oxygen flue gas PPS is subject to oxidative degradation. Continuous service temperature must be limited to ≤ 160 °C in such service. Please advise the flue-gas O₂ content when enquiring.

SURFACE TREATMENTS AVAILABLE

Singeing · calendering · heat setting · PTFE solution impregnation · 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.