TECHNICAL DATA SHEET

P84 / Fiberglass Composite Needle Felt FMS

Fiberglass base, needle-felt composite with a high-temperature surface layer

DESCRIPTION

Fiberglass composite for the extreme-temperature class. Near-zero thermal shrinkage at high temperature with the strength of a needle felt, for duties where a synthetic felt would shrink and a woven cloth would not clean.

TYPICAL APPLICATIONS

Glass furnace exhaust · cement kiln clinker cooler · aluminium smelting · carbon black production.

PHYSICAL & MECHANICAL PROPERTIES

PROPERTY	UNIT	TYPICAL VALUE	TEST METHOD
Mass per unit area	g/m²	**900 ± 50**	ISO 9073-1 / GB/T 24218.1
Thickness	mm	**2.2 – 2.8**	ISO 9073-2 / GB/T 24218.2
Air permeability	L/dm²/min	**200 – 350**	ISO 9237 / GB/T 5453, @ 200 Pa
Breaking strength, warp / weft	N	**≥ 1800 / ≥ 2000**	ISO 13934-1 / GB/T 3923.1
Thermal shrinkage	%	**< 0.5**	3 h at rated continuous temperature

SERVICE TEMPERATURE & CHEMICAL RESISTANCE

CONTINUOUS

≤ 260 °C

PEAK / SURGE

280 °C

Acid ★★★

★★★ excellent · ★★ good · ○ limited

Note. The rating above is for the P84-surfaced composite. A composite whose surface layer is PPS is limited by that layer (≤ 190 °C continuous, ≤ 160 °C in high-oxygen gas); please confirm the grade on enquiry.

SURFACE TREATMENTS AVAILABLE

PTFE / graphite / silicone impregnation available — please specify on enquiry

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.

Values shown are typical properties of the standard product and are not a specification. Actual properties are confirmed on the order acknowledgement and on the mill test certificate supplied with each delivery. Service temperature depends on the complete gas composition; consult us before selecting a medium for an unfamiliar duty. Subject to change without notice.

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