VXEL

FEF elastomeric foam insulation · product datasheet

Doc ref VXEL-SPEC-01 · Standard GB/T 17794 · Applicant Vxel New Materials (Shenzhen) Co., Ltd.

1. Product scope

This datasheet covers the three Vxel FEF elastomeric foam products: sheets, tubes and the matching adhesive. For thermal insulation, cold preservation and anti-condensation on HVAC, refrigeration and cold chain, plumbing and industrial piping.

2. Key properties (nominal)

Property	Value	Standard
Thermal conductivity (lambda)	<= 0.034 W/(m·K)	GB/T 17794
Fire performance	B1 (difficult to ignite)	GB 8624
Service temperature	-50 ~ +110 °C	-
Water-vapour resistance factor (mu)	Pending confirmation	GB/T 17794
Oxygen index	Pending confirmation	GB/T 17794
Density	Pending confirmation	GB/T 17794
Vacuum water absorption	Pending confirmation	GB/T 17794
Water-vapour transmission	Pending confirmation	GB/T 17794

Values are nominal; 12-item full-spec testing is under way. Final figures follow the test report; this document makes no conformity claim for items whose reports are not yet issued.

3. Sheets - standard sizes

Thickness	Width	Form	Typical use
6 / 9 / 13 mm	1.0 - 1.5 m	Roll / sheet	Ducts, small equipment
19 / 25 mm	1.0 - 1.5 m	Roll / sheet	Chilled water, large pipes
32 / 40 / 50 mm	1.0 m	Sheet	Low-temp, outdoor, thicker

4. Tubes - standard sizes

Inner diameter (ID)	Wall thickness	Length
6 - 35 mm	6 / 9 / 13 / 19 / 25 mm	2 m
42 - 89 mm	9 / 13 / 19 / 25 / 32 mm	2 m
108 - 168 mm	19 / 25 / 32 / 40 / 50 mm	2 m

5. Matching adhesive

Same system as the sheets and tubes, for joint bonding and edge sealing; supplied by coverage area to avoid overbuying.

6. Selection quick-reference

Cooling / chilled water

size by dew-point margin for anti-condensation, typically 19 - 25 mm, thicker in high humidity.

Indoor ducts

9 - 13 mm is usually enough, small footprint.

Hot water / underfloor

size by media-to-ambient delta; underfloor 9 - 13 mm.

Outdoor / high-humidity plant rooms

add 6 mm; low-temp stores: add 10 mm.

Diameter add-on

+6 mm at >= 54 mm, another +6 mm at >= 89 mm; round up to the 6/9/13/19/25/32/40/50 mm series.

7. Quality control & delivery

- Batch-tested to the published QC-01 standard, not once a year; batch reports ship with the goods and trace to the production date.

- Every batch retained for 12 months; non-conforming batches isolated entirely - never downgraded or mixed.

- European standards EN 14304 / EN 13501-1 under testing; no conformity claimed before the reports are in hand.

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This datasheet is updated as the product evolves; final specifications follow the quotation and the batch.