TECHNICAL DATA SHEET

Microfleece

Weight	100–200 g/m^2 (2.9–5.9 oz/yd^2)
Composition	100% polyester; finer (micro) filament/yarn than standard fleece.
Knit type	Microfleece · Polar Fleece
Use class	Sport
Stretch	Mechanical stretch
Knit	A dense ground knit from fine microfilament yarn, brushed for a fine, short, dense nap (usually double-sided, low loft).
Hand	Very soft, fine, low-loft and flexible; close to the skin, light, breathable.
Typical use	Inner lining/mid-layer · light sport-outdoor tops · baby-kidswear
Strength	A very light, flexible yet moisture-managing fabric — the ideal thin mid-layer.
Watch for	Being fine/low-loft, its standalone insulation is below thick fleece; treat it as a mid/lining layer, not the main warmth layer.

CERTIFICATIONS

ISO 9001 · ISO 14001 · ISO 45001 · OEKO-TEX STEP · STANDARD 100 · GRS · RCS

Width, gauge, finishing options and test standards are shared on request.

Typical technical ranges

Weight tolerance	±5% (typical); on raised/napped fleece ±5–7% is more realistic, up to ±7% on light micro-fleece
Width	Open width ~150–190 cm (typically 160–180); tubular ~70–95 cm. Varies with machine diameter/cut, weight and stenter draw
Shrinkage (wash)	Length/width ~±2–4% (typical after proper heat-set); may reach ~5% in length if setting/finishing is weak. A ≤±3% target is common
Color fastness	Wash 4–5; rubbing (dry) 4–5, (wet) 3–4; light 4–6 (typical disperse-dyed PES). Minimum ~4 targeted; wet rub drops to the low end on deep/bright shades
Abrasion / pilling	Pilling 2–3 (raw/unfinished) → 3–4 with anti-pill shearing/finish, up to 4 in good cases. Martindale abrasion is usually not reported for fleece; if reported, ~15,000–30,000 cycles order of magnitude (construction/yarn dependent)
Gauge / yarn	Machine gauge ~E18–E24 (typically E20–E22; heavy/lofty polar down to E16–E18); yarn typically 100–300 denier textured (DTY) PES (coarser denier or plied feed for nap/loft; ~75 denier microfilament on micro-fleece)

These ranges are industry-TYPICAL / indicative values based on construction and fiber, not Fersan's binding QC measurements. Exact values are confirmed per order, approved sample and lot-based QC report.

Related reading: **Fleece and Scuba: Structured Polyester Knits** · **Brushed, Unbrushed and Fleece: Where Warmth Comes From in Polyester Knits** · **The Weight Map: Which Knit Goes Where, from 80 to 400 g/m²** · **Thermophysiological Comfort: Ret, Rct and the Sweating Hot Plate**