

TECHNICAL DATA SHEET

Double-Faced (Double-Brushed) Fleece

Weight	200-320 g/m ² (5.9-9.4 oz/yd ²)
Composition	100% polyester.
Knit type	Double-faced fleece · Polar Fleece
Use class	Outer / structured
Stretch	Mechanical stretch
Knit	After the circular-knit ground, both face and back are separately raised and sheared, giving an even, neat nap on both sides.
Hand	Both faces soft and napped; the same softness whichever side meets the skin; balanced, full.
Typical use	Unlined fleece jackets/tops (back shows) · reversible garments · blankets/wraps
Strength	With equally soft faces it needs no extra lining and keeps a consistent look in reversible designs.
Watch for	Standard fleece is usually double-brushed too; “double-faced” mainly denotes a deliberately balanced/finished nap on both sides. Both napped faces double the pilling-prone area (anti-pill recommended).

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](#)