

TECHNICAL DATA SHEET

Three-thread Fleece (polyester)

Weight	280-380 g/m ² (8.3-11.2 oz/yd ²)
Composition	Polyester-led (ground + fleece + binder). Three-thread is classically cotton/cotton-PES (CVC); the 100% polyester version exists but is less common.
Knit type	Three-thread fleece · Three-thread Fleece
Use class	Outer / structured
Stretch	No stretch
Knit	A three-thread knit using miss, tuck and knit on a single-bed machine; jersey face, with the fleece yarn anchored by the binder on the back.
Hand	Markedly thicker, fuller and firmer than two-thread; flat-matte face, heavy and structured drape.
Typical use	Sweatshirts · hoodies · jogger sets · winter basics
Strength	Warmer and fuller than two-thread — the bodied base of a heavy winter sweatshirt.
Watch for	100% PES three-thread is less common than cotton/blend; next-to-skin breathability/absorbency trails cotton, with possible static and odour retention.

CERTIFICATIONS

ISO 9001	ISO 14001	ISO 45001	OEKO-TEX STEP	STANDARD 100	GRS · RCS
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Width, gauge, finishing options and test standards are shared on request.

Typical technical ranges

Weight tolerance	Typically $\pm 5\%$ (on heavy/brushed three-thread lots $\pm 5-8\%$ may be seen in practice; locked at sample approval)
Width	Open width typ. $\sim 170-200$ cm; tubular $\sim 80-100$ cm (depends on machine diameter/needle count + brushing and compacting take-up; final width confirmed by sample)
Shrinkage (wash)	After wash typ. length/width -4% to -7% (with heat-set + compacting can be brought to -3 to -5% ; brushed/laid-in yarn slightly more movement in length; ± 0.5 pt sample variance is normal)
Color fastness	Typical (min) — wash 4-5, rubbing dry 4-5 / wet 2-3 (deep/bright shades down to 2), light 4-5; perspiration (acid/alkaline) 4-5. Brushed pile face makes wet rub the critical weak point — confirmed by shade/recipe
Abrasion / pilling	Pilling typ. grade 2-3 on raw/brushed face (3-4 with anti-pilling yarn/finish); Martindale abrasion for structural integrity typ. $>20,000$ cycles. For three-thread the critical QC field is pilling — not Martindale
Gauge / yarn	Typical machine gauge E16-E22 (sporty/heavy body E16-E18, finer face E20-E22); body/loop yarn typ. $\sim 150-300$ denier, binder finer — denier confirmed by machine and target weight

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](#)