

TECHNICAL DATA SHEET

Unbrushed Three-thread Fleece

Weight	280-360 g/m ² (8.3-10.6 oz/yd ²)
Composition	Polyester-led (ground + fleece + binder); the back is unbrushed (raw fleece-float texture).
Knit type	Unbrushed three-thread fleece · Three-thread Fleece
Use class	Outer / structured
Stretch	No stretch
Knit	The three-thread structure left unbrushed; jersey face, a flat napless fleece-float texture on the back.
Hand	Flat, napless back; drier and less plush than brushed, slightly lighter hand; matte-full face.
Typical use	Mid-season sweatshirts/hoodies · lighter joggers · spring-autumn daily
Strength	Its napless flat back gives low pilling and a clean inner look — balanced for mid-season.
Watch for	Being unbrushed it warms less; the back looks more bare and won't match brushed plushness.

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	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. ~170-200 cm; tubular ~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. ~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**](#)