

TECHNICAL DATA SHEET

Three-thread Fleece with Elastane

Weight	300-400 g/m ² (8.8-11.8 oz/yd ²)
Composition	Polyester-led base + ~5% elastane (spandex), usually plated with the face/ground yarn. Elastane three-thread is relatively uncommon in the market.
Knit type	Three-thread fleece + elastane · Three-thread Fleece
Use class	Outer / structured
Stretch	2-way stretch
Knit	An elastane (core-spun) yarn added to the three-thread knit; mostly 2-way comfort stretch (not 4-way).
Hand	Standard three-thread fullness plus comfort stretch; better body fit and recovery.
Typical use	Fitted joggers · shape-defined hoodies · athletic-leisure
Strength	Adds comfort stretch and recovery to three-thread warmth and fullness — a fitted, mobile shape.
Watch for	Elastane three-thread is relatively rare; usually 2-way; elastane can fatigue under high-heat care.

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. ~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**](#)