

TECHNICAL DATA SHEET

Single Jersey (Polyester)

Weight	120-200 g/m ² (3.5-5.9 oz/yd ²)
Composition	100% polyester single-knit; cotton/elastane blends exist, but pure PES is the most common sport variant.
Knit type	Single jersey (performance) · Sport & Technical
Use class	Sport
Stretch	Mechanical stretch
Knit	A single-bed single-jersey knit; flat V-stitch face, loop-rib back (asymmetric).
Hand	Fine, fluid and elastic; soft and light; smooth, draping.
Typical use	Tees · tanks · light sport tops · jersey linings
Strength	The base of high-volume sport/promo basics — light, fast-drying and economical to make.
Watch for	Edges curl; without elastane pure PES has no permanent structural stretch; opacity is low at light weights. Same structure as the Single Jersey family (performance-tuned by yarn/finish).

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 $\pm 5\%$; in very light ($85\text{--}120\text{ g/m}^2$) jersey/mesh constructions may run to $\pm 6\text{--}7\%$ in practice. Spandex relaxation/tension affects GSM
Width	Open width (finished): typically 150–190 cm; tubular: typically 90–180 cm depending on supply form (varies with cylinder diameter/machine and final set width)
Shrinkage (wash)	After wash, length/width: typically -3% to -6% ; $\leq \pm 3\%$ achievable with good heat-set/compaction. Single jersey moves more than balanced interlock/rib; spandex recovery can increase length change
Color fastness	Wash 4–5; rubbing dry 4–5, wet 3–4 (deep/bright & migration-prone shades may drop to 2–3); light 4–5; perspiration typically 4–5. Wet rub & deep/bright shades are the weakest link; reductive clear (RC) quality is decisive
Abrasion / pilling	Martindale abrasion: typically $\sim 15,000\text{--}40,000+$ cycles (tight piqué/double-knit high, light mesh/jersey lower); pilling: typically 3–4 (near 4 on smooth filament; texturized/microfiber/brushed surfaces can sit at 2–3; anti-pill finish can lift to 4)
Gauge / yarn	Machine gauge: typically E24–E32 (E36–E40 for very fine constructions); yarn: typically 50–150 denier texturized/microfilament PES. Notation is denier/filament-count (e.g. 50/72, 75/72, 100/144, 150/288) — higher filament count = lower dpf = microfilament/soft hand. Spandex variants add base PES + spandex (e.g. 20–40 denier)

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: [Mesh and Piqué: Breathable Polyester Knits](#) · [Moisture-Wicking Finishing in Polyester Knits](#) · [Functional Finishes for Polyester Knits](#) · [Knit Quality Testing: What to Measure in Polyester](#)