

TECHNICAL DATA SHEET

Moisture-Wicking Performance Knit

Weight	130-220 g/m ² (3.8-6.5 oz/yd ²)
Composition	Mostly 100% polyester; often ~80-90% PES / 10-20% elastane (with-spandex) for stretch and fit.
Knit type	Moisture-wicking performance knit · Sport & Technical
Use class	Sport
Stretch	Mechanical stretch
Knit	A functional knit engineered for sweat transport (not flat jersey; usually piqué, micro-mesh or channelled interlock); moves sweat to the outer face by capillary action, usually backed by a wicking finish.
Hand	Dry, light, napless; doesn't cling even when wet; lightly textured by structure.
Typical use	Training/running tees · sport tanks · performance polos · jerseys · leggings-shorts (with elastane)
Strength	Pulls sweat off the skin and evaporates it fast to stay dry and cool in intense activity — a clear edge over cotton.
Watch for	Wicking depends heavily on knit and finish; a finish-free “dry fit” claim may not match real performance. Pure PES can hold odour more than cotton. Pure PES stretches mechanically; the 10-20% elastane version is truly elastic.

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 $\pm 5\%$; in very light (85–120 g/m ²) jersey/mesh constructions may run to ± 6 –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 ~15,000–40,000+ 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](#)