PDFSEWINGPATTERNS.COM | SEWING ROOM WALL CHART (US LETTER)

Sewing Machine Needle Size & Fabric Weight Chart

Metric / US sizes 60/8 through 110/18 · Point styles · Thread weights · Stitch lengths

Size	Needle Type	Best Matched Fabrics	Thread & Stitch	Weight
60/8	Microtex / Sharp	Silk chiffon, organza, fine batiste, sheer voile	60 wt–80 wt fine cotton or silk | 1.8–2.0 mm	Lightweight
70/10	Microtex / Universal	Silk charmeuse, cotton lawn, rayon challis, fine shirting	50 wt–60 wt polyester or cotton | 2.0–2.2 mm	Lightweight
75/11	Ballpoint / Jersey	Cotton interlock, baby rib knit, French terry, soft jersey	50 wt all-purpose polyester | 2.5–3.0 mm (narrow zigzag or lightning stitch)	Knits
75/11	Stretch	Spandex swimwear, Lycra activewear, cotton-elastane jersey	50 wt polyester + woolly nylon in bobbin (optional) | 2.5 mm narrow zigzag (0.5–1.0 mm width)	Knits
80/12	Universal	Quilting cotton (4.5 oz), poplin, broadcloth, cotton flannel, mid-weight linen	50 wt all-purpose polyester or cotton | 2.4–2.6 mm seams; 3.0 mm topstitch	Medium-Weight
80/12	Quilting	Pieced cotton with low-loft batting, bowl cozies, padded sleeves	50 wt cotton or polyester | 2.8–3.2 mm quilting	Medium-Weight
90/14	Universal / Heavy	8–10 oz cotton canvas, twill, corduroy, double-layer linen with SF101	40 wt–50 wt polyester | 2.8–3.0 mm seams; 3.5 mm topstitch	Medium-Weight
90/14	Topstitch	Tote handles, bag rims, welt pockets, decorative contrast stitching	30 wt topstitching thread on top, 50 wt in bobbin | 3.5–4.0 mm	Specialty
100/16	Jeans / Denim	12–14 oz duck canvas, heavy denim, waxed canvas, multi-layer webbing	30 wt–40 wt heavy-duty polyester | 3.0–3.5 mm	Heavyweight
110/18	Jeans / Heavy Canvas	16 oz raw denim, upholstery canvas, multi-layer duffel straps	30 wt extra-strong polyester | 3.5–4.0 mm	Heavyweight
90/14	Leather (Wedge Point)	Genuine leather tabs, suede patches (NEVER faux leather or vinyl)	30 wt–40 wt bonded nylon or polyester | 3.5–4.0 mm (never short stitches)	Specialty
80/12 (4.0 mm)	Stretch Twin (Double)	T-shirt hems, knit neckbands, leggings cuffs	Two 50 wt spools on top + 50 wt in bobbin | 3.0–3.2 mm straight stitch	Knits

STUDIO NEEDLE REPLACEMENT RULES:

1. Swap to a fresh needle after every 8 hours of stitching (or after every heavy canvas tote or silk project).
2. Skipped stitches on knits usually mean you need a Stretch needle; loud thumping on canvas means step up to 90/14 or 100/16.