

## Knit Applications

**Knit Fabric:** A fabric structure produced by inter-looping one or more ends of yarn together. The two major classes of knitting are warp knitting and weft knitting. There are many knit patterns but the most common constructions include the jersey, ribbed, and tricot.

The threads below are the most common thread types and sizes used by manufacturers around the world.

- **#1 Selection** should be used where there are special requirements, such as a) minimizing thread breakage & seam failures; b) for sewing special fabrics that are susceptible to excessive needle holes; and c) where quality seaming is a must.
- **#2 Selection** should be used where sewing requirements are not as difficult and cost is the major consideration.

The following recommendations include the most common thread type & size used for a particular sewn product. In many cases, other thread types are sometimes used from buttonsewing, buttonholing, blindstitching, and other special requirements like overdyeing, etc.

# Apparel - Knits

GARMENT	FABRIC WGT	#1 THREAD SELECTION Where <b>SEAM QUALITY</b> is Critical	#2 THREAD SELECTION <b>PRICE POINT</b> is the Major Consideration
Activewear - Lycra Pants, Shorts, Shirts	Lt - Med	<b>All Operations:</b> T-24 Perma Core®; <b>Alternative Overedge &amp; Coverstitch:</b> T-24, T-35 Best Stretch® or Wildcat Plus®	<b>All Operations:</b> T-27 Spun Poly**; <b>Alternative Overedge &amp; Coverstitch:</b> T-18, T-35 Wildcat Plus®
Activewear - Tops (Womens)	Lt - Med	<b>All Operations:</b> T-24 Perma Core®; <b>Alternate Overedge &amp; Coverstitch:</b> T-18, T-24 Wildcat Plus®	<b>All Operations:</b> T-21, T-27 Spun Poly**; <b>Alternative:</b> T-18, T-24 Wildcat Plus®
Dresses or Skirts (Knit)	Lt - Med	<b>All Operations:</b> T-24 Perma Core®; <b>Alternative Overedge &amp; Coverstitch:</b> T-18, T-35 Wildcat Plus®	<b>All Operations:</b> T-27 Spun Poly**; <b>Alternative Overedge &amp; Coverstitch:</b> T-18, T-35 Wildcat Plus®
Fleece - Sweat Shirt / Pants	Med	<b>All Operations:</b> T-24 Perma Core®; <b>Alternative Overedge &amp; Coverstitch:</b> T-24, T-35 Wildcat Plus®	<b>All Operations:</b> T-27 or T-40 Spun Poly**; <b>Alternative Overedge &amp; Coverstitch:</b> T-24, T-35 Wildcat Plus®
Intimates - Bras / Foundations	Lt - Med	<b>Zig Zag Lockstitch:</b> T-24, T-30 Perma Core®; <b>Overedge &amp; Coverstitch:</b> T-24, T-35 Best Stretch® or Wildcat Plus®	<b>Zig Zag Lockstitch:</b> T-27 Spun Poly**; <b>Overedge &amp; Coverstitch:</b> T-18, T-35 Wildcat Plus®
Intimates - Camasoles, Slips, pajamas	Lt - Med	<b>All Operations:</b> T-24 Perma Core®; <b>Alternative Overedge &amp; Coverstitch:</b> T-18 Wildcat Plus®	<b>All Operations:</b> T-21 Spun Poly**; <b>Alternative:</b> T-18 Wildcat Plus®
Intimates - Panties	Lt	<b>All Operations:</b> T-24 Perma Core®; <b>Alternative Overedge &amp; Coverstitch:</b> T-18 Wildcat Plus®	<b>All Operations:</b> T-21 Spun Poly**; <b>Alternative:</b> T-18, T-24 Wildcat Plus®
Pants - Stretch (Womens)	Lt	<b>Zig Zag Lockstitch:</b> T-24 Perma Core®; <b>Overedge &amp; Coverstitch:</b> T-24, T-35 Best Stretch® or Wildcat Plus®	<b>All Operations:</b> T-27 Spun Poly**; <b>Alternative Overedge &amp; Coverstitch:</b> T-18, T-24 Wildcat Plus®
Shirts - Polo Golf	Lt - Med	<b>All Operations:</b> T-24 Perma Core®	<b>All Operations:</b> T-21, T-27 Spun Poly**; <b>Alternative Overedge &amp; Coverstitch:</b> T-18 Wildcat Plus®
Sleepwear - Night Gowns	Lt - Med	<b>All Operations:</b> T-24 Perma Core®; <b>Alternative Overedge &amp; Coverstitch:</b> T-18 Wildcat Plus®	<b>All Operations:</b> T-21, T-27 Spun Poly**; <b>Alternative Overedge &amp; Coverstitch:</b> T-18, T-24 Wildcat Plus®
Sportswear - Football Pants	Heavy	<b>Zig Zag Lockstitch:</b> T-40, T-60 Perma Core®; <b>Overedge &amp; Coverstitch:</b> T-35 Best Stretch® or Wildcat Plus®	<b>Zig Zag Lockstitch:</b> T-40, T-60 Spun Poly**; <b>Overedge &amp; Coverstitch:</b> T-24, T-35 Wildcat Plus®
Sportswear - Jersey	Med	<b>All Operations:</b> T-40 Perma Core®; <b>Alternative Overedge &amp; Coverstitch:</b> T-35 Wildcat Plus	<b>All Operations:</b> T-40, Spun Poly**; <b>Alternative Overedge &amp; Coverstitch:</b> T-24, T-35 Wildcat Plus®
Sweaters	Lt - Med	<b>Most Operations:</b> Sweater Looping Yarn; <b>Other Operations:</b> T-24, T-30 Perma Core®	<b>All Operations:</b> T-27 Spun Poly**; <b>Alternative Overedge &amp; Coverstitch:</b> T-35 Wildcat Plus®
Swimwear - Mens & Boys	Lt - Med	<b>Topstitch or Zig Zag:</b> T-24, T-40 Perma Core®; <b>Overedge &amp; Coverstitch:</b> T-24, T-35 Best Stretch® or Wildcat Plus®	<b>Topstitch or Zig Zag:</b> T-40 Spun Poly**; <b>Overedge &amp; Coverstitch:</b> T-24, T-35 Wildcat Plus®
Swimwear - Womens	Lt - Med	<b>Topstitch or Zig Zag:</b> T-24, T-40 Perma Core®; <b>Overedge &amp; Coverstitch:</b> T-24, T-35 Best Stretch® or Wildcat Plus®	<b>Topstitch or Zig Zag:</b> T-40 Spun Poly**; <b>Overedge &amp; Coverstitch:</b> T-24, T-35 Wildcat Plus®

GARMENT	FABRIC WGT	#1 THREAD SELECTION Where <b>SEAM QUALITY</b> is Critical	#2 THREAD SELECTION <b>PRICE POINT</b> is the Major Consideration
T- Shirts	Lt	<b>All Operations:</b> T-21 Spun Poly**; <b>Overedge &amp; Coverstitch Alternative:</b> T-18 Wildcat Plus®	<b>All Operations:</b> T-21 Spun Poly**; <b>Overedge &amp; Coverstitch Alternative:</b> T-18 Wildcat Plus®
Terry Bath Robes	Lt - Med	<b>All Operations:</b> T-24 Perma Core; <b>Alternative Overedge &amp; Coverstitch:</b> T-24, T-35 Wildcat Plus®	<b>All Operations:</b> T-21, T-27 Spun Poly**; <b>Alternative:</b> T-24, T-35 Wildcat Plus®
Underwear - "A" Undershirts	Lt	<b>All Operations:</b> T-21 Spun Poly**; <b>Overedge &amp; Coverstitch Alternative:</b> T-18 Wildcat Plus®	<b>All Operations:</b> T-21 Spun Poly**; <b>Overedge &amp; Coverstitch Alternative:</b> T-18 Wildcat Plus®
Underwear - Briefs	Lt	<b>All Operations:</b> T-21 Spun Poly**; <b>Overedge &amp; Coverstitch Alternative:</b> T-18 Wildcat Plus®	<b>All Operations:</b> T-21 Spun Poly**; <b>Overedge &amp; Coverstitch Alternative:</b> T-18 Wildcat Plus®
Underwear - Thermal	Med	<b>All Operations:</b> T-24 Perma Core; <b>Alternative Overedge &amp; Coverstitch:</b> T-24, T-35 Wildcat Plus®	<b>All Operations:</b> T-27 Spun Poly**; <b>Alternative Overedge &amp; Coverstitch:</b> T-24, T-35 Wildcat Plus®

**Thread Brand Legend**

A&E Brand Name	Generic Thread Type	Description
Perma Core®	PW Core	Polyester Wrapped, Polyester Core
Perma Spun®, Excell®, Bravo™	Spun Poly**	Spun Polyester
Wildcat Plus®	Textured Poly	Textured (bulked) Polyester
Best Stretch®	Textured Nylon	Textured (bulked) Nylon

**General Guide to Thread Tex Size by Fabric Weight**

**TEX SIZE:** Is the gram weight of 1000M of greige yarn. The larger the Tex Size, the heavier the Thread Size.

Thread Tex Size	Oz./Sq. Yd.	Seam Construction Weight
Tex 16, 18, 21	2-4 Oz.	Extra Light
Tex 24, 27, 30	4-6 Oz.	Light
Tex 30, 35, 40, 50	6-8 Oz.	Medium