



Innovate. Create. Deliver.



Perma Spun® and Excell®

100% Polyester, Staple Spun Sewing Threads

A&E's **Perma Spun®** and **Excell®** are 100% polyester staple spun sewing threads twisted and finished for optimum sewing performance.

For use in general sewing, light and heavy weight garments, **Perma Spun®** and **Excell®** are ideal threads for multiple applications where traditional staple spun polyester is required providing excellent seam strength and sewability across multiple operations.

Heavily utilized as an all-around industrial apparel thread, **Perma Spun®** and **Excell®** are regularly used in the sewing of knit shirts, casual slacks, dress shirts and tops, dresses, denim and jeans, children's wear, jackets, and matte look embroidery applications.

A&E's **Excell®** is certified in country of origin for NAFTA/CAFTA compliance.



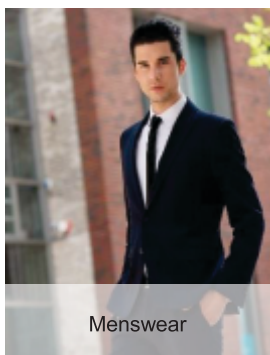
FEATURES

- **Excellent Sewability**
Perma Spun® and **Excell®** are engineered to provide excellent performance on manual and automatic multi-directional sewing machines.
- **Soft Hand and Great Color Availability**
Developed for when a traditional staple spun polyester is required, these products supply are soft to the hand and are available in a wide variety of colors.
- **Very Good Colorfastness**
This product boasts very good colorfastness and durability in laundering with good chemical resistance.

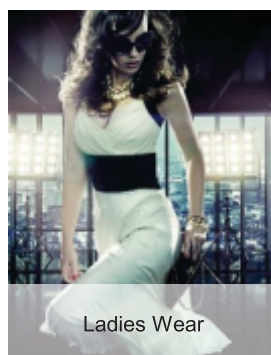
Applications include:



Denim



Menswear



Ladies Wear



Children's Wear

Providing Over 125 Years of Premium Products and Service

amefird.com



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Perma Spun® and Excell® Sizes and Product Details***

Application	Size		Strength		Recommended Needle Size
	Tex	Metric	lbs.	kgs.	
Light Weight	16**	180	1.23	.56	65/9
	18*	160	1.5	.68	65/9
	21	140	1.64	.74	70/10
	27	100	2.12	.96	75/11
	30	90	2.32	1.05	80/12
Medium Weight	40	75	3.22	1.46	90/14
	45	60	3.63	1.65	100/16
	60	50	4.67	2.12	110/18
	70	40	6.11	2.78	110/18
	80**	36	7.09	3.22	120/19
	90	30	7.59	3.45	125/20
Heavy Weight	105	27	9.71	4.41	125/20
	120	25	10.55	4.79	130/21
	135*	20	13.21	6.03	140/22
Extra Heavy Weight	210**	13	19.42	8.81	200/25

*Denotes additional Perma Spun® only size and product details.

**Denotes additional Excell® only sizes and product details and is certified in country of origin for NAFTA/CAFTA compliance.

***Physical characteristics provided are for comparative purposes only, final determination of suitability is the sole responsibility of the user. All physical data shown is based on current averages and should not be used as minimum requirements.



A&E maintains a global commitment to sustainability at all of its worldwide operations, driven through its Ten Threads of Sustainability. For more information on A&E's Eco-Driven® initiatives, please visit www.amefird.com/sustainability.

Applications include:



Denim



Children's Wear



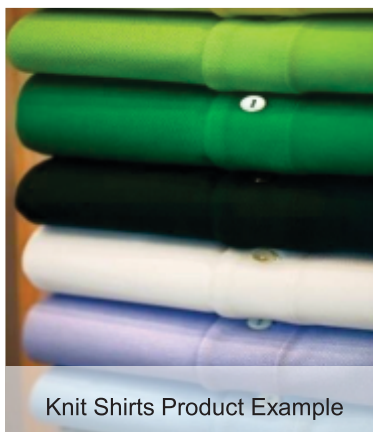
Casual Wear



Ladies Wear



Menswear



Knit Shirts Product Example



A&E is the world's foremost manufacturer and distributor of premium quality industrial and consumer sewing thread, embroidery thread and technical textiles. A&E's dedication to providing its customers with the finest products and services, at the highest quality, delivered globally and steadfast commitment to superior quality and customer service make A&E the preferred thread supplier. Learn more on A&E's corporate social responsibility and environmental sustainability initiatives, comprehensive product offerings, and global locations at www.amefird.com.

Technical Product Information



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