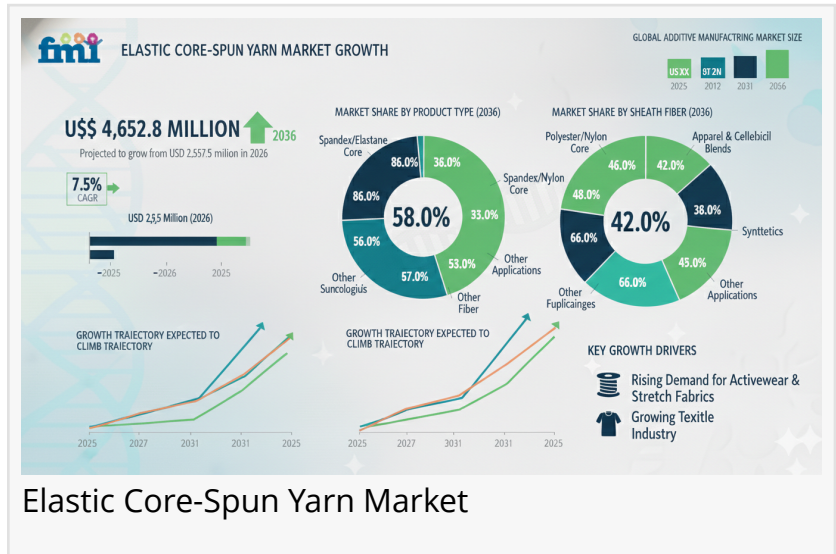


Elastic Core-Spun Yarn Market Valuation, ROI Potential & Long-Term Growth Prospects 2026–2036

MD, UNITED STATES, January 23, 2026 /EINPresswire.com/ -- Future Market Insights (FMI), a leading provider of market intelligence and consulting services, has released a comprehensive analysis of the global [elastic core-spun yarn market](#). The report forecasts that the market, valued at USD 2,257.5 million in 2026, is expected to expand to USD 4,652.8 million by 2036, registering a compound annual growth rate (CAGR) of 7.5% over the decade. This growth trajectory underscores the increasing integration of stretch-enabled yarns in apparel and technical textiles, driven by demands for enhanced fit, recovery, and comfort in everyday and performance-oriented fabrics.



The analysis, based on FMI's proprietary forecasting model and primary research, examines how elastic core-spun yarns—constructed by wrapping sheath fibers around an elastomeric core—are substituting traditional yarns in sectors where dimensional stability and elasticity are critical. Key applications include denim, activewear, intimate apparel, and medical textiles, where these yarns enable fabrics to withstand repeated extension without deformation. The report highlights that market expansion is primarily substitution-driven within established textile categories, rather than overall volume increases in fabric production.

Elastic Core-Spun Yarn Market Overview and Key Metrics

In 2026, the elastic core-spun yarn market stands at USD 2,257.5 million, with projections indicating steady growth to USD 4,652.8 million by 2036 at a 7.5% CAGR. This outlook reflects broader trends in the textiles industry, where consumers and manufacturers prioritize yarns that deliver consistent elongation, shape retention, and compatibility with high-speed production systems. Spandex or elastane cores dominate the market with a 58.0% share, owing to their superior recovery properties and durability under laundering. Meanwhile, cotton and cellulosic

blends lead the sheath fiber segment at 42.0%, favored for their breathability and natural feel.

The market's structure emphasizes performance parameters such as yarn uniformity, tensile strength, and elongation at break, which directly impact fabric functionality and end-user acceptance. FMI's report notes that adoption is moderated by higher material costs associated with elastomeric cores and the need for precise spinning controls to ensure quality. Despite these factors, value growth is supported by rising use in comfort-focused garments and technical applications, aligning with brand strategies that emphasize long-term wearability and durability.

Growth Drivers in the Elastic Core-Spun Yarn Industry

Demand for elastic core-spun yarns is propelled by their ability to meet stringent performance requirements in apparel and technical sectors. Manufacturers in activewear and sportswear rely on these yarns to provide controlled stretch and recovery, essential for items like leggings, sports bras, and performance tops that must accommodate dynamic movements. In intimate apparel and hosiery, core-spun designs balance resilience with softness, addressing consumer preferences for snug fits without discomfort.

Technical textiles, including medical bandages and orthotic supports, benefit from the yarns' precise elongation and load response, ensuring therapeutic efficacy. The report identifies innovations in filament integration and durability enhancements as key enablers, with spinners optimizing sheath selections to reduce pilling and improve evenness. Additionally, compatibility with knitting and weaving equipment is a critical evaluation criterion for textile converters, facilitating seamless integration into production lines.

Market Segmentation: Core Materials, Sheath Fibers, and Applications

The elastic core-spun yarn market is segmented by core material, sheath fiber, and application, revealing distinct performance trade-offs and end-use priorities.

By core material, spandex/elastane holds a commanding 58.0% share due to its reliable stretch recovery and suitability for high-elongation apparel. Rubber cores persist in cost-sensitive niches, while hybrid systems address specific durability needs.

In sheath fibers, cotton and cellulosic blends account for 42.0%, prioritizing comfort and moisture management in skin-contact fabrics. Polyester sheaths are chosen for wrinkle resistance and longevity in casualwear, and polyamide options support abrasion-resistant applications in active textiles.

Regional Analysis of Elastic Core-Spun Yarn Demand

Geographically, the market shows varied growth rates, with emerging and developed regions contributing to global expansion. China leads with an 8.7% CAGR, fueled by its role as a textile

manufacturing hub and rising production of activewear and functional fabrics. Investments in innovation, coupled with e-commerce growth, bolster demand for high-performance yarns in athleisure and casual categories.

Brazil follows at 8.3% CAGR, as its textile base shifts toward sustainable and stretchable fabrics for intimate apparel and sports garments. The USA, at 7.2% CAGR, sees robust sales in activewear and medical textiles, where flexibility and support are paramount. Manufacturers here focus on fabrics that enhance comfort and durability.

Germany and South Korea record 7.1% and 6.7% CAGRs, respectively, reflecting demand in performance fashion and technical applications. Overall, global evolution is tied to the apparel, automotive, and medical sectors' pursuit of advanced textiles offering elasticity and shape retention.

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Competitive Landscape and Key Industry Participants

The elastic core-spun yarn market features prominent players focused on innovation and supply chain reliability. Leading companies include The Lycra Company (through partners), Hyosung (Creora brand), Asahi Kasei (Roica), Indorama Ventures, and Toray Industries. These firms emphasize material advancements, such as improved core-sheath integration, to meet application-specific needs.

FMI's analysis indicates that competition centers on delivering yarns with predictable behavior, reduced variability, and enhanced compatibility for downstream processes. Recent developments include refinements in spinning technologies to optimize uniformity and elongation, supporting broader adoption in high-value segments.

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