BLEND FABRIC OFFERING

WESTEX
A MILLIKEN BRAND

PREMIUM PERFORMANCE.
OPTIMAL COMFORT.

ALWAYS INNOVATING

At Westex®, we're trusted textile pioneers who create advanced flame-resistant and arc-rated (FR/AR) fabrics that keep hardworking men and women safer, more comfortable and confident in dangerous, demanding jobs around the world.

Market proven, with tens of millions of yards out in the field, our fabrics don't just meet standards—they integrate safety and comfort to deliver the most wearable PPE possible. Our efforts don't stop with engineering and innovation. Through extensive educational outreach, we've helped workers better understand electric arc flash, flash fire and other thermal hazards. We work tirelessly to solve real-world problems that make the industries we serve safer and smarter.

Blending the Best of Protection and Performance.

THE NEED

The threat of flash fire and electric arc flash exposures has necessitated fabrics that are certified to global standards and provide multi-hazard protection. Additionally, workers want their PPE to deliver a high level of performance so they can get the job done confidently and comfortably.

THE STANDARDS

Exceeding industry standards is at the core of our global commitment to delivering superior flame-resistant and arc-rated (FR/AR) fabrics. These documented standards and best practices ensure teams can work safer in utility and oil and gas fields.

See pages 8-10 for more information on the standards >

THE SOLUTION

To achieve the best of both protection and performance, Westex created a new category of products: blend fabrics. These fabrics don't just comply with a range of global standards, they also meet customers' demand for optimal comfort with lighter weight, better breathability, high mobility and moisture-wicking technology.

Lasting Quality Meets Versatile Comfort.

The fabric used in FR/AR workwear is the largest factor in determining a garment's protection level, comfort and overall value. Westex blend fabrics bring the best characteristics of everyday performance clothing to a lightweight and breathable FR/AR protective fabric. Through their uniquely woven construction, these fabrics are optimized to keep workers comfortable on the job.

BREATHABLE

Beneficial in all types of weather, the combination of the weave and the patented Westex tri-blend provides excellent breathability and air permeability, keeping wearers more comfortable in every condition.

MOISTURE WICKING

Engineered with Modacrylic, LENZING™ Lyocell and Aramid fibers to disperse and absorb moisture at a high rate, Westex blend fabrics enable workers to stay dry in the summer heat and keep warm in the winter.

LONG LASTING

As durable as it is functional, the patented Westex tri-blend provides strength throughout the laundering process, superior colorfastness and guaranteed FR/AR protection for the life of the garment.

Revolutionizing the Science of Fabric.

PROCESS

Engineered with state-of-the-art equipment, advanced proprietary processes and patented tri-blend technology, Westex blend fabrics integrate the best of both protective and performance fabrics.

INNOVATION

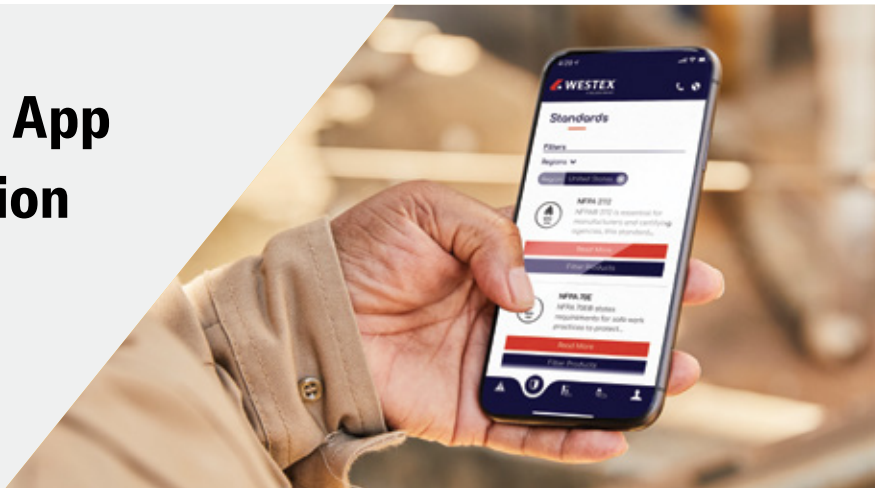
We are always advancing our portfolio with groundbreaking technologies and solutions to serve more people and industries. Through cutting-edge research and development, we continuously evolve our range of offerings to deliver the industry's most comfortable and reliable FR/AR protection.

SUSTAINABILITY

Committed to providing more sustainable products, we build each of our blend fabrics using LENZING™ Lyocell. These fibers have gained a reputation for their environmentally responsible closed-loop production process, which transforms wood pulp into cellulosic fibers with high resource efficiency and environmental standards. In addition to its sustainable production, this versatile material provides additional comfort and moisture-wicking ability, along with the capability to achieve ANSI yellow and CSA orange for high visibility.

Download the Westex App to explore our collection of blend fabrics.

WESTEX.COM/APP



Blend Fabric Offering

Whether seeking the breathability of Westex® DH, strengthened with aramid, or the next-to-skin moisture management of Polartec® Power Dry®, every product within our vast blend fabric portfolio is designed with unique features to keep hardworking men and women comfortable and protected on the job.

TABLE KEY

Laundry Compatibility

- Industrial Laundry
- Lite Industrial Laundry
- Home Laundry

POLARTEC® POWER DRY® FR

Offering superior next-to-skin moisture management, Polartec® Power Dry® FR uses a patented tri-blend knit to deliver mechanical wicking action and high breathability for fast drying times and ultra-comfortable performance.

Polartec® Power Dry® FR Fabrics

STYLE	DESCRIPTION	CONTENT	NFPA 70E PPE CATEGORY	NFPA 2112 CERTIFIED	EN ISO 11612:2015	IEC 61482-2	CUTTABLE WIDTH	SPEC WEIGHT oz/yd2 (g/m2)	LAUNDRY	TYPICAL GARMENT APPLICATIONS
0680/ 0681	4.5 oz Jersey Knit Base Layer	**Patented Westex Tri-Blend** Lenzing™ Lyocell, Modacrylic, Aramid	Cat 1	Yes			63 in	4.5 (152)	H	Base Layer Shirt
2009	6.4 oz Pique Knit	**Patented Westex Tri-Blend** Lenzing™ Lyocell, Modacrylic, Aramid	Cat 2	Yes	A1, B1, C1	Class 1	54 in	6.4 (217)	L H	Knit Shirt

POLARTEC® POWER GRID™ FR

Utilizing Polartec's famous grid construction, Polartec® Power Grid™ FR is a jersey knit that provides superior warmth without weight, minimal bulk and the combined ability to both trap warm air and quickly release excess heat during high exertion.

Polartec® Power Grid™ FR Fabrics

STYLE	DESCRIPTION	CONTENT	NFPA 70E PPE CATEGORY	NFPA 2112 CERTIFIED	EN ISO 11612:2015	IEC 61482-2	CUTTABLE WIDTH	SPEC WEIGHT oz/yd2 (g/m2)	LAUNDRY	TYPICAL GARMENT APPLICATIONS
2309/ 2309HV	9.6 oz Jersey Knit, Grid Velour ***CSA Z96 + ANSI 107***	Lenzing™ Lyocell, Modacrylic, Aramid, Spandex	Cat 2	Yes	A1, B1, C2	Class 1	58 in	9.6 (325)	L H	Lightweight Jacket, Balaclava

POLARTEC® WIND PRO® FR

A new standard in soft, weather-resistant FR fabric, Polartec® Wind Pro® FR is four times more wind resistant than classic fleece to reduce wind chill and repel moisture, while maintaining breathability and comfort.

Polartec® Wind Pro® FR Fabrics

STYLE	DESCRIPTION	CONTENT	NFPA 70E PPE CATEGORY	NFPA 2112 CERTIFIED	CUTTABLE WIDTH	SPEC WEIGHT oz/yd2 (g/m2)	LAUNDRY	TYPICAL GARMENT APPLICATIONS
2510/ 2510HV	11.6 oz Jersey/Velour ***CSA Z96 + ANSI 107***	Lenzing™ Lyocell, Modacrylic, Aramid, Spandex	Cat 2	Yes	58 in	11.6 (393)	L H	Jacket

WESTEX® DH

A popular choice for protection and performance, Westex® DH provides outstanding breathability and moisture management to keep the wearer cooler, drier and more comfortable. DH also retains an excellent after-wash appearance, with a low propensity for pilling.

Westex® DH Fabrics

BASE STYLE	DESCRIPTION	CONTENT	NFPA 70E PPE CATEGORY	NFPA® 2112 CERTIFIED (ASTM F1930 BODY BURN %)	EN ISO 11611:2015	EN ISO 11612:2015	CAN/CGSB 155.20	SPEC WEIGHT oz/yd2 (g/m2)	LAUNDRY	TYPICAL GARMENT APPLICATIONS
6960	6.5 oz 2x1 Twill ***ISO 20471***	Lenzing™ Lyocell, Modacrylic, Aramid, Anti-Static	Cat 2	Yes (21.9%)		A1, A2, B1, C1, F1	Yes	6.5 (220)	I H	Lightweight Shirts, Coveralls
6820/ 8830	6.5 oz 2x1 Twill ***CSA Z96 + ANSI 107***	**Patented Westex Tri-Blend** Lenzing™ Lyocell, Modacrylic, Aramid	Cat 2	Yes (18.3%)		A1, A2, B1, C1, E1, F1	Yes	6.5 (220)	I H	Lightweight Shirts, Coveralls
6860/ 8870	7.5 oz 2x1 Twill ***CSA Z96 + ANSI 107***	**Patented Westex Tri-Blend** Lenzing™ Lyocell, Modacrylic, Aramid	Cat 2	Yes (11.2%)	Class 1	A1, A2, B1, C1, E1, F1	Yes	7.5 (254)	I H	Shirts, Pants, Coveralls, Jackets
6850/ 8860	7.5 oz Ripstop Twill	**Patented Westex Tri-Blend** Lenzing™ Lyocell, Modacrylic, Aramid	Cat 2	Yes (18%)				7.5 (254)	I H	Pants, Coveralls, Jackets
6910/ 8920	8.0 oz 2x2 Canvas	**Patented Westex Tri-Blend** Lenzing™ Lyocell, Modacrylic, Aramid	Cat 2	Yes (9.3%)			Yes	8.0 (271)	I H	Pants, Coveralls, Jackets

WESTEX® DH Air™

Westex® DH Air™ brings all the superior characteristics you've come to love from Westex® DH to a lightweight fabric. DH Air™ provides outstanding breathability and moisture management, while maintaining color consistency for the wearer.

Westex® DH Air™ Fabrics

STYLE	DESCRIPTION	CONTENT	NFPA 70E PPE CATEGORY	NFPA® 2112 CERTIFIED (ASTM F1930 BODY BURN %)	CAN/CGSB 155.20	SPEC WEIGHT oz/yd2 (g/m2)	LAUNDRY	TYPICAL GARMENT APPLICATIONS
8811	5.5 oz 2x1 Twill	**Patented Westex Tri-Blend** Lenzing™ Lyocell, Modacryllic, Aramid	Cat 2	Yes (31.7%)	Yes	5.5 (186)	I H	Lightweight Shirts, Lightweight Coveralls

Overview of Standards

At Westex, we are committed to educating on workplace standards. This overview is not intended to replace those standards but rather serve as brief descriptions. We encourage you to view the full standards on the respective organization's website.

UNITED STATES

ANSI/ISEA 107-2020 ansi.org

American National Standard on performance, classification and selection of high-visibility safety apparel.

ANSI/ISEA 107-2020 specifies requirements for high visibility garments to help ensure workers in a range of industries are visible during the day, at night and in low-lighting. Additionally, to guide workers in choosing the proper PPE for their expected work settings and activities, this standard requires that garments are classified as type O (off-road), type R (roadway and temporary traffic control) or type P (public safety activities)—and if not FR, clearly labeled "This garment is not flame resistant as defined by ANSI/ISEA 107-2020 Section 10.5."

NESC standards.ieee.org

National Electrical Safety Code

Providing guidance on safely installing, operating and maintaining electric power and communication utility systems that supply residential, commercial and industrial buildings, this standard protects workers from arc flash exposure by requiring employers to perform a hazard risk analysis for employees that work on or near energized parts or equipment. If the incident energy is greater than 2 cal/cm2, AR PPE is required.

NFPA 2112 nfpa.org/2112

Standard on flame-resistant clothing for protection of industrial personnel against short-duration thermal exposures from fire.

Essential for manufacturers and certifying agencies, this standard protects workers from flash fire exposure and injury by specifying performance requirements and test methods for flame-resistant fabric and garments.

NFPA 2113 nfpa.org/2113

Standard on selection, care, use and maintenance of flame-resistant garments for protection of industrial personnel against short-duration thermal exposures from fire.

Developed primarily for garment end users to reduce health and safety risks associated with incorrect selection, use and maintenance, as well as contamination and damage of flame-resistant garments, this standard specifies selection, care, use and maintenance requirements for such garments that are compliant with NFPA® 2112: Standard on Flame-Resistant Garments for Protection of Industrial Personnel Against Flash Fire.

NFPA 70E nfpa.org/70e

Standard for Electrical Safety in the Workplace®.

NFPA 70E® states requirements for safe work practices to protect personnel by reducing exposure to major electrical hazards. Originally developed at OSHA's request, NFPA 70E® helps companies and employees avoid workplace injuries and fatalities due to shock, electrocution, arc flash and arc blast.

CANADA

CAN/CGSB-155.20 scc.ca

CGSB 155.20, a national standard of Canada, states the minimum requirements and test methods for performance of protective workwear worn for protection against unplanned exposure to hydrocarbon flash fire and optionally steam and hot fluids.

CAN/ULC-S801-14 scc.ca

CAN/ULC-s801-14 applies to the construction, operation, maintenance and replacement of electric utility systems that are used to generate, transform, transmit, distribute or deliver electrical power or energy to consumer services or their equivalent, including: A Equipment located in easements, rights of way, or in other recognized agreements; B Equipment located on property owned or leased by the electric utility for the purpose of communication, metering and control of electrical power or energy; C Service drops or laterals, associated metering, and street lighting under the exclusive control of electric utilities; D Facilities used to generate electrical power or energy for electric utility systems; and E Voltage levels up to 800 kV a.c. line-to-line (L-L) and 600 kV d.c.

CSA Z96-15 csagroup.org

Specifying requirements for high visibility garments, CSA Standard Z96-15 helps improve the conspicuity of workers in a range of industries. This standard also guides workers in choosing the right apparel for their environments by classifying garments based on the body coverage—and thus visibility—they provide.

EUROPE

IEC 61482-2 iec.ch

IEC 61482-1-2:2014 specifies procedures to test material and garments intended for use in heat and flame-resistant clothing for workers if there is an electric arc hazard. A directed and constrained electric arc in a test circuit is used to classify material and clothing in two defined arc protection classes.

ISO 20471 iso.org

ISO 20471:2013 specifies requirements for high visibility clothing which is capable of visually signaling the user's presence. The high visibility clothing is intended to provide conspicuity of the wearer in any light condition when viewed by operators of vehicles or other mechanized equipment during daylight conditions and under illumination of headlights in the dark. Performance requirements are included for colour and retroreflection as well as for the minimum areas and for the placement of the materials in protective clothing.

EN ISO 11612:2015 iso.org

ISO 11612:2015 specifies performance requirements for protective clothing made from flexible materials, which are designed to protect the wearer's body, except the hands, from heat and/or flame. For protection of the wearer's head and feet, the only items of protective clothing falling within the scope of ISO 11612:2015 are gaiters, hoods and overboots. However, concerning hoods, requirements for visors and respiratory equipment are not given. The performance requirements set out in ISO 11612:2015 are applicable to protective clothing which could be worn for a wide range of end uses, where there is a need for clothing with limited flame spread properties and where the user can be exposed to radiant or convective or contact heat or to molten metal splashes.

EN 1149-5 en-standard.eu

EN 1149-5 specifies material and design requirements for electrostatic dissipative protective clothing, including hoods and caps, used as part of a total earthed system, to avoid incendiary discharges, where the minimum ignition energy of an explosive atmosphere is not less than 0,016 mJ.

EN ISO 11611:2015 iso.org

ISO 11611:2015 specifies minimum basic safety requirements and test methods for protective clothing including hoods, aprons, sleeves and gaiters that are designed to protect the wearer's body including head (hoods) and feet (gaiters) and that are to be worn during welding and allied processes with comparable risks. For the protection of the wearer's head and feet, this International Standard is only applicable to hoods and gaiters. This International Standard does not cover requirements for feet, hand, face and/or eye protectors.

EN 13034 en-standard.eu

The EN 13034 standard specifies the requirements for protective clothing against splashes of chemical products. Requirements for features related to abrasion, resistance and traction and liquid acid penetration and repellency are checked. Garments classified under this standard are considered to be in Category 3.

WESTEX®
A MILLIKEN BRAND

For help customizing the PPE program that's right for you, contact one of our industry experts.

WESTEX.COM/CONTACT