







WORKSafe®



WORKSafe® Flame Resistant (FR) Workwear

Where there are flammable materials being handled, processed, stored or in anyway present in the workplace hazards such as flash fires and explosions may occur due to accidental ignition of these materials. In various industries such as petrochemical and oil drilling, workers are exposed to risks of fire accidents which may cause severe or even fatal burns. If a flash fire does occur, wearing WORKSafe® FR Workwear would prevent fatal burn injuries by creating a fire resistant barrier which retards the flames and is self-extinguishing, thereby minimizing burn injuries.

All WORKSafe® FR Workwear are:

- CE Category II certified and marked
- Tested and certified as a complete garment under EN ISO 11612:2008

All WORKSafe® FR Workwear are made of only quality FR fabrics and key accessories that are tested to EN ISO 11612 standards. In addition, only nickel-free buttons are used in WORKSafe® FR clothing, together with shorter stitches, double-stitching at all seams and bar-tacking at stress areas for enhanced durability.

When selecting FR Workwear, you should look for:

- Excellent fabric integrity it should not melt and should provide the user with a barrier or insulating layer against exposure to flame
- Antistatic properties the fabric should not act as an

ignition source via static electricity

- Global safety standards e.g. NFPA 2112:2012, EN ISO 11612:2008 - both the fabric and full garment should be properly tested
- Flame resistant key accessories e.g. threads, zippers, reflective strips, pocket linings
- Comfort:
 - Fit and mobility FR Workwear should allow for maximum body movement and dissipation of thermal heat in event of flash fire
 - Softness and weight FR Workwear should be soft and lightweight
 - Highly breathable FR Workwear should be highly breathable and designed to help wearers feel cool and dry

Difference between Flame Resistant and Flame Retardant Materials:

Flame Resistant: Aramid fibers (aromatic polyamides) that are naturally flame resistant without any chemical treatment or process. These fibers have slower flaming combustion and self-extinguish when exposed to a flame of short duration during testing. Flame resistant materials do not melt, drip, burn nor support combustion in air. Its properties cannot be altered through cleaning and it's generally strongly abrasion resistant.

Flame Retardant: Fibers that have undergone a chemical treatment so that the material is rendered flame resistant. The flame retardancy of the fibers deteriorate over time due to repeated washing and laundering.

WORKSafe® (



protective apparel

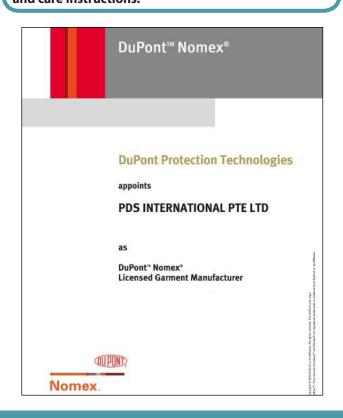
The Flame Resistant Materials we use:

Nomex® **III A:** A meta-aramid fiber manufactured by DuPont™. It has a blend of 93% NOMEX®, 5% Kevlar®, and 2% P140 (static dissipative fiber). NOMEX® III A, as a fabric, has been tested to NFPA 2112 and NFPA 70E HRC 1 arc rating (USA) as well as EN ISO 11612 (Europe) standards.

There's only one DuPont™ Nomex® brand fiber. That's why for over 30 years, industrial workers and the people who protect them have demanded a genuine product. Fires are unpredictable and even a split-second can make all the difference. DuPont™ Nomex® brand fabrics and garments are subjected to rigorous testing in a variety of conditions by DuPont™ scientists and engineers who know and support the latest OSHA and NFPA standards; who constantly innovate, finding new ways to help safeguard your workers from fire and electric arc hazards; who are always working to offer solutions that help make protective gear stronger, more durable and safer. Nomex® brand fibers possess inherent flame resistant qualities that can't be washed out or worn away, so it lasts. Nomex® brand garments are lightweight and comfortable for every worker. Clothe your crews with the name that means superior protection: DuPont™ Nomex®*.

*DuPont $^{\mathsf{m}}$ and Nomex $^{\mathsf{o}}$ are registered trademarks of E.I. du Pont de Nemours and Company.

PDS International Pte Ltd is an official licensed garment manufacturer of DuPont™ Nomex®. Be sure you have the authentic product! Check that you have a sewn-on Nomex® brand tag complete with usage and care instructions.



The Flame Retardant Materials we use:

Pyrovatex®: A durable flame retardant product for cellulosic fibers. Pyrovatex®* is a treated fabric that offers the best overall fire protection available for cotton, as proven by comprehensive testing according to international flame retardant standards. Treated fabrics barely shrink when exposed to heat and fires, thereby ensuring that the skin is not exposed to hazardous conditions. Treated cotton, unlike synthetics, will not melt in the presence of heat excellent from fires. Treated fabrics also offer thermal protection where heat is an added danger.

Key characteristics of Pyrovatex®:

- Outstanding durability to wash and wear, which assures long life of the clothing.
- Finishes have negligible influence on fabric coloration and therefore preserve flexibility to meet specific color demands.
- Treated fabrics have good compatibility with other treatments, permitting the creation of multifunctional garments.

*Pyrovatex® is a registered trademark of Huntsman Corporation.

Usage and Care of WORKSafe® FR Workwear:

- · For a correct fit, try garment on before washing or wearing.
- Wash garments separately from other garments.
- Machine wash with hot water and heavy duty detergent (60°C/140°F).
- Tumble dry low (71°C/160°F).
- Do not bleach and avoid detergents containing bleach.
- Do not line-dry in direct sunlight.
- Wash your new workwear before wearing and after each subsequent wearing to thoroughly remove potentially flammable fabric processing aides/finishes, greases, oily soil and other flammable contaminants.
- Always wear 100% natural fiber undergarments with all flame resistant garments.
- Anti-static garments should be used in conjunction with proper grounding procedures for maximum protection against the threat of spark. Do not remove garments when in a hazardous environment.

For further details, please refer to the respective product care instruction labels.



EN ISO 11612



ADAPTED FROM EN ISO 11612:2008

PROTECTIVE CLOTHING AGAINST HEAT AND FLAME

All fabrics, hardware used in garment shall not:

- At a temperature of 180°C, ignite or melt, and shrink >5%
- At a temperature of 260°C, ignite or melt, and shrink >10%
- Be made of any material known to be harmful to the wearer
- Possess a pH-value of ≤3.5 and ≥9.5, for textiles
- After 5 cleaning cycles, exceed: 3% shrinkage (woven, non-woven and sheet materials) 5% shrinkage (knitted materials)

Physical requirements for outer material:

- Tensile strength: withstands ≥300N force in both the machine and cross directions
- Tear strength: withstands ≥15N force in both the machine and cross directions
- Burst strength for knitted materials: with stands \geq 200kPa
- Seam strength: withstands ≥225N



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protective apparel

EN ISO 11612

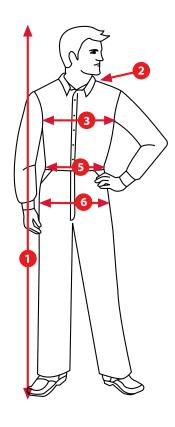


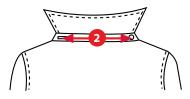
Guidelines to consider before buying FR Workwear

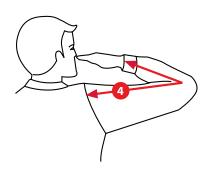
- There should be substantial overlap between gloves and sleeves so that contact with heat, flame or hot material is avoided
- Trouser bottoms should overlap top of footwear whilst walking or crawling
- Openings should be capable of being closed to prevent entry of heat, flame or hot material
- There should be quick-release fasteners to allow rapid removal during emergencies

Letter code	Description	Grading		
Limited flame spread A1 Tested in accordance with ISO 15025:2000, procedure A	Single layer garments incl. seams/innermost lining and the outer material of multilayered garments incl. seams, shall meet the following: • no flaming to the top or either side edge • no hole formation • no melting or suffering flaming or molten debris • afterflame and afterglow each, shall be ≤2s			
Limited flame spread A2 Tested in accordance with ISO 15025:2000, procedure B	Hemmed specimens from single layer garments shall meet the following: • no flaming to the top or either side edge • no melting or suffering flaming or molten debris • afterflame and afterglow each, shall be ≤2s			
Convective heat B Tested in accordance with ISO 9151	Single or multilayer garments and/or clothing assemblies that offer protection against convective heat shall meet at least a performance level of B1.	Performance levels (B*) B1 B2 B3 a Heat transfer i	Range of HT min. 4.0 10.0 20.0 ndex, as defined in	1 ^a 24 values 5 max. <10.0 <20.0
Radiant heat C Tested in accordance with ISO 6942	Single or multilayer garments and/or clothing assemblies that offer protection against radiant heat shall meet at least a performance level of C1.	Performance levels (C*) C1 C2 C3 C4 a Radiant heat tran	Heat transfer factor min. 5.0 20.0 50.0 95.0 sfer index, as defined to the state of	max. <20.0 <50.0 <95.0
Molten aluminium splash D Tested in accordance with ISO 9185	Single or multilayer garments and/or clothing assemblies that offer protection against molten aluminium splash shall meet at least a performance level of D1.	Performance levels (D*) D1 D2	Molten alum min. 100 200 350	
Molten iron splash E Tested in accordance with ISO 9185	Single or multilayer garments and/or clothing assemblies that offer protection against molten iron splash shall meet at least a performance level of E1.	Performance levels (E*) E1 E2	Molten ir min. 60 120	on splash 3 max. <120 <200
Contact heat F Tested in accordance with ISO 12127	Tested at 250°C, single or multilayer garments and/or clothing assemblies that offer protection against contact heat shall meet at least a performance level of F1.	Performance levels (F*) F1 F2 F3	Thresho min. 5.0 10.0	old time 5 max. <10.0 <15.0









Measurement Guide

- 1. **Height:** Stand straight against a wall without your shoes. Make a mark level with the top of your head. Measure from this point down to the floor.
- 2. **Neck:** Measure around the base of the neck where a collared shirt would fit, or measure a collarband on a shirt that fits you well. Lay the collarband flat. Measure from the beginning of the button hole to the center of the button
- 3. **Chest:** Measure well up under your arms, across your shoulder blades and over the fullest part of your chest. Hold firmly, but not tightly. Be sure the tape is level and straight across your back. Stand naturally.
- 4. **Sleeve:** Bend the elbow slightly. Start at the shoulder and measure to the elbow and down to the wrist bone.
- 5. **Waist:** First, remove your belt. Then, measure over shirt (not over pants) at the position where you normally wear your pants. Hold the tape firmly, but not tightly.
- 6. **Hips:** Stand with your heels together. Measure around the fullest part of the hips, holding tape measure level.

WORKSafe® Coverall/Insulated Coverall*

SIZES	S	М	L	XL	2XL	3XL	4XL
Collar	15	16	16.5	17	17.5	18	-
Shirt L	18.5	19	19.5	20	20.5	21	-
Shoulder	17.5	18.5	19.5	20.5	21.5	22.5	-
Chest	40	42	44	46	48	50	-
Waist R	31	33	35	37	39	41	-
Waist E	35	37	39	41	43	45	-
Arm H	20	21	22	23	24	25	-
Sleeve	22.5	23	23.5	24	24.5	25	-
Cuff	9	9.5	10	10.5	11	11.5	-
Pants L	39	40	41	42	43	43	-
Hip	40	41	42.5	44	46	48	-
Crotch	27	28	29	30	31	32	-
Thigh	25.5	26.5	27.5	28.5	29.5	30.5	-
Bottom	17	17	17	17	18	18	-

LEGENDS:

Shirt L: Shirt LengthPants L: Pants LengthWaist R: Waist RelaxedWaist E: Waist Extended

Arm H : Arm Hole

^{*} These are actual body measurements in inches.

WORKSafe® Jacket/Shirt*

SIZES	S	M	L	XL	2XL	3XL	4XL/MTM
Collar	15	16	16.5	17	17.5	18	-
Length	25.5	26	27	28	29	29.5	-
Shoulder	17.5	18.5	19.5	20.5	21.5	22.5	-
Chest	39	41	43	45	47	49	-
Waist	38	40	42	44	46	48	-
Hip	39	41	43	45	47	49	-
Sleeve	22.5	23	23.5	24	24.5	25	=
Cuff	9	9.5	10	10.5	11	11.5	-

WORKSafe® Pants*

SIZES	S	М	L	XL	2XL	3XL	4XL/MTM
Length	38.5	39.5	40.5	41.5	42.5	43	-
Waist	28	30	32	34	36	38	-
Hip	38	39.5	41	42.5	44.5	46.5	-
Crotch	26	26.5	27.5	28.5	29.5	30.5	-
Thigh	25	26	27	28.5	29.5	30.5	-
Bottom	17	17	17	17	18	18	-

WORKSafe® Labcoat (Unisex)*

SIZES	XS	S	М	L	XL	2XL	3XL
Chest	32-35.5	36-38	38.5-42	42.5-50	46.5-50	50.5-54	54.5-58
Hip	33.5-36	36.5-39	39.5-42	42.5-46	46.5-50.5	51-54	55.5-59.5

 $[\]hbox{* These are actual body measurements in inches.}\\$

Available Colours (XX):
orange (OR)

protective apparel

WORKSafe® FR COVERALLS



WORKSafe® **@**

protective apparel

WORKSafe® FR JACKET





- Two large double-stitched chest pockets with flap-on fasteners
- Two radio loops above chest pockets
- One pen-pocket with flap-on hidden fasteners
- · Double-stitched seams for enhanced durability
- Available in 2 types: Nomex® III A or Pyrovatex®
- FR reflective strips, logo and nametags are optional

PRODUCT CODE	
Size (X): XS / S / M / L / XL	/ 2XL / 3XL / 4XL
620WSCNMXA45XXJSX	Nomex® III A, 4.5oz
	Available Colours (XX):
	orange (OR)
	navy blue (NB)
	royal blue (RB)
	red (RD)
620WSCNMXA55YLJSX	Nomex® III A, 5.3oz
	Available Colours (XX):
	yellow (YL)
620WSCPYR70ORJSX	Pyrovatex®
	Available Colours (XX):
	orange (OR)

WORKSafe® FR SHIRT



- Two large double-stitched chest pockets with flap-on fasteners
- Two radio loops above chest pockets
- One pen-pocket with flap on the left arm with fasteners
- Extra-long tail and roomy body for ease of movement
- Available in 1 type only: Nomex[®] III A
- FR reflective strips, logo and nametags are optional





- Two slack-style front pockets
- Two set-in hip pockets
- FR brass zippers
- · 2 cargo-style pockets at both legs
- Double-stitched seams for enhanced durability
- Available in 2 types: Nomex[®] III A or Pyrovatex[®]
- FR reflective strips, logo and nametags are optional

- Button front closures
- Lapel collar
- Side vent openings
- 3 pockets
- Made-to-order option available
- Available in 1 type only: Nomex® III A

PRODUCT CODE

Size (X): XS / S / M / L / XL / 2XL / 3XL / 4XL 620WSCNMXA45XXLSX | Nomex® III A, 4.5oz

NOTICE III A, 4.302

Available Colours (XX):

- orange (OR)
 navy blue (NB)
- royal blue (RB)
- red (RD)



WORKSafe® FR LABCOAT



WORKSafe®



protective apparel

WORKSafe® VINYL APRON



- High quality vinyl apron, thickness 8mil, length 48"
- Plain edge and lint-free straps for clean environment use
- Provides superior flexibility and resistance to chemicals, fats, oils and greese
- Ideal for use in food handling and preparation, industrial maintenance and chemical processing

PRODUCT CODE	
610WSCVL08AP48	WORKSafe® Vinyl Apron, Ra
	Edge, 8mil, 48" length

WORKSafe® VINYL SLEEVE



- High quality vinyl sleeves, thickness 8mil, length
- · Elastic-sewn edges at both ends
- Provides superior flexibility and resistance to chemicals, fats, oils and grease
- Ideal for use in food handling and preparation, industrial maintenance and chemical processing

PRODUCT CODE	
610WSCVL08SL18	WORKSafe® Vinyl Sleeves, 8mil,
	18" length



- One size fits all
- · Lightweight and flexible
- High visibility fluorescent colour
- · Reflective strips located on the front and back
- 100% polyester mesh fabric
- Machine washable: cold wash cycle

PRODUCT CODE	
610WGCSV100GN	WORKGard® Safety Vest with
	reflective strips
	lime green
610WGCSV100OR	WORKGard® Safety Vest with
	reflective strips
	orange

- Elastic webbing vest
- One size fits all
- Lightweight and flexible
- High visibility fluorescent colour
- Reflective strips located throughout vest
- Machine washable: cold wash cycle

PRODUCT CODE	
610WGCSV200GN	WORKGard® Elastic Reflective Vest
	Lime Green
	lime green
610WGCSV200OR	WORKGard® Elastic Reflective Vest
	Orange
	orange

WORKGard® SAFETY VEST



WORKGard® ELASTIC REFELECTIVE VEST







Work Apparel

FOR THE HARDWORKING MEN AND WOMEN

WEARITE® by WORKSafe®

The WEARITE® brand represents an extensive range of workwear, safety, promotional and leisure apparel that can help you build your corporate image. WEARITE® can contribute to a significant part of your branding profile with your own brand logos and slogans. Standardise your crews, and build a sense of identity, camaraderie and brotherhood with our workwear. We have a wide range of colours to choose from.

WEARITE® is not judgmental. WEARITE® can cater to big spenders and to the budget-conscious. Our repertoire does not just include the usual trousers, shirts, jackets, coveralls, lab-coats, t-shirts and polo-tees, we can do it made-to-order! So call our WEARITE® representatives, and they'll be absolutely delighted to head over to your office premises, your factory, your work-site, to show you how WEARITE® can help your company.



WEARITE® COTTON JACKET



protective apparel

Two large double-stitched chest pockets with flap-on fasteners

- One pen pocket
- Available in 1 type of pre-shrunk 100% cotton: 260gsm premium cotton
- Reflective strips, logo and nametags are optional
- Made-to-order option available

PRODUCT CODE

Size (X): XS / S / M / L / XL / 2XL / 3XL / 4XL

630WRCCTPXXJSX | WEARITE® Cotton Premium Jacket

Available Colours (XX):

orange (OR) navy blue (NB)

white (WH) grey (GY)



WEARITE® COTTON PANTS

- · Two slack-style front pockets
- · Two large double-stitched cargo pockets on both legs with flap-on fasteners
- One set-in hip pocket
- Available in 2 types of pre-shrunk 100% cotton: 260gsm premium cotton or 180gsm standard cotton
- Reflective strips, logo and nametags are optional
- Made-to-order option available

PRODUCT CODE

Size (X): XS/S/M/L/XL/2XL/3XL/4XL

630WRCCTPXXPSX | WEARITE® Cotton Premium Pants **630WRCCTSXXPSX** | WEARITE® Standard Premium Pants

Available Colours (XX):

orange (OR)

navy blue (NB)

white (WH)

grey (GY)



WORKSafe® **Q**

protective apparel

WEARITE® COTTON OVERALLS



WEARITE® LABCOAT



- Two-way zipper
- Two large double-stitched cargo pockets on both legs with flap-on fasteners
- Two large double-stitched chest pockets with flap-on fasteners
- One pen pocket
- Available in 2 types of pre-shrunk 100% cotton: 260gsm premium cotton or 180gsm standard cotton
- Reflective strips, logo and nametags are optional
- · Made-to-order option available

Size (X): XS/S/M/L/XL/2XL/3XL/4XL 630WRCCTPXXCSX | WEARITE® Cotton Premium Coverall 630WRCCTSXXCSX | WEARITE® Standard Premium Coverall Available Colours (XX): orange (OR) navy blue (NB) white (WH) grey (GY)

- Button front closures
- Lapel collar
- Side vent openings
- 3 pockets
- Made-to-order option available
- Available in 1 type of pre-shrunk 100% cotton: 260gsm premium cotton

PRODUCT CODE

Size (X): XS / S / M / L / XL / 2XL / 3XL / 4XL

630WRCCTPXXLCSX | WEARITE® Cotton Premium Labcoat

Available Colours (XX):

- orange (OR) navy blue (NB)
- white (WH)
- grey (GY)

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Whilst every effort is made to ensure that the contents are correct and up to date, any omission or inaccuracy is regretted. WORKSafe® reserves all rights to change specifications and stock availability without notice.







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