



21 CAL ARC DENIM JEANS



DW-ARC21-DJ

Description

The Dromex® Arc product range is designed to protect the user from the hazards of heat and to reduce total burn injury when working in environments exposed to electric Arc hazards.

Dromex® Arc garments are manufactured with our exclusive Dromex® A.P.T™ (Arc Protective Technologies) fabric blend, which has been carefully developed by our team along with industry experts and professionals to ensure specialised Arc safety and global standards are met. Our Dromex® A.P.T™ fabric and garments have been tested to NFPA, ASTM, EN, SABS and IEC standards.

The Dromex® A.P.T™ denim jeans features the following:

- Flame Retardant core spun thread that is double stitched for durability on the inlegs, pocket opening, zip front, back yoke and the back rise.
- Front opening with concealed brass zip at front and metal button.
- Is applicable for use in category 1 and 2 ARC related hazards.
- Swing pockets with brass rivet and stud.
- A high visibility Dromex® Arc sidewinder label.
- ATPV 21 cal/cm² embroidery and Arc sidewinder at right back for garment suitability identification.

These denim jeans are suitable for use in the:

- Automotive
- Construction
- Mining
- Petroleum
- Utilities and Power Generators
- Data centres
- High volume manufacturing
- Substations and switchrooms

Dromex® A.P.T™ fabrics are self-extinguishing, heat resistant and resistant to ignition. Dromex® Arc garments are sewn with inherent flame retardant thread.

Special Instructions

Note: For electric Arc exposures, wear the correct number of flame resistant clothing layers as dictated by an electric arc hazard analyst.

In potentially explosive environments, proper grounding procedures must be used for protection against electrostatic spark ignition.

Do not put on or remove garments when in a potentially explosive environment.

None of the materials or processes used in the manufacture of these products are known to be harmful to the wearer.

The manufacturer has examined under the system for ensuring quality of production by means of monitoring and inspection.

These Arc flash denim jeans are designed to accommodate the basic safety requirements and standards for Personal Protective Equipment.

The information contained herein is intended to assist the wearer in the selection of Personal Protective Equipment.

Actual conditions of use cannot be directly simulated in a test environment therefore it is the responsibility of the end user and not the manufacturer or supplier to determine the Arc flash suitability for the intended use.

Arc flash protective denim jeans should be thoroughly inspected before use to ensure no damage is present.

Specifications

Style:	Indigo blue, 5 pocket denim jean with zip fastener and button closure.
Fabric composition:	100% Cotton.
Mass:	14 Oz/470gsm.
Additional:	Arc clothing must be worn with additional and correctly selected Arc PPE to ensure complete protection against the hazards of Arc Flash. Refer to table "Arc Flash PPE Categories" for further compatible PPE.

Packaging, Storage & Obsolescence

DW-ARC21-DJ are packed in a resealable polybag and sold individually.

Inspect all Arc PPE prior to use and do not use garments that are damaged (such as tears or burn holes) or dirty as the level of protection may be reduced.

The level of protection may also be reduced if you do not carefully follow the wash care instructions on the label. If exposed to an Arc Flash incident, the garment must be replaced immediately.

Sizes Available

Waist: 28 – 50

Size designation	Nominal measurements of finished garment (cm)		
	Waist extended	Outside leg length	Inside leg length
71/28	73	100	79
76/30	78	102	79
81/32	83	104	79
87/34	91	105	79
92/36	94	106	79
97/38	99	107	79
102/40	104	107	79
107/42	109	108	79
112/44	114	108	79
117/46	119	108	79
122/48	124	108	79
127/50	129	108	79

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Disclaimer

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Latest update: 08/06/2022

Compliance & Conformity

- Complies to marking SANS 724, Personal Protective Equipment and protective clothing against the thermal hazards of an electric Arc.
- IEC 61482-1-1 - Live working - Protective clothing against the thermal hazards of an electric Arc - Open Arc Test Method. It determines the Arc Thermal Protection Value (ATPV level) of the garment. The basic principle is that the ATPV of the garment must be higher than the Arc Flash energy.
- IEC 61482-1-2, Live working - Protective clothing against the thermal hazards of an electric Arc - Box Test Method. It determines the Arc Protection Class Rating of the material or garment by using a constrained and directed Arc:
- NFPA 2112 - Standard on flame resistant clothing for protection of industrial personnel against short duration thermal exposures from fire.
- NFPA 70E - Standard for electrical safety clothing for employees.
- ASTM F1959, Standard Test Method for Determining the Arc Rating of Materials for Clothing.
- ASTM F2621-12, Standard Practice for Determining Response Characteristics & Design Integrity of Arc Rated Finished Products in an Electric Arc Exposure.
- EN 11611:2015, Protective clothing for use in welding and allied processes.
- EN 11612:2015 Protective clothing -- Clothing to protect against heat & flame -- Minimum performance requirements.

Cleaning & Maintenance

Dromex® A.P.T™ Garments can be cleaned by home or commercial laundry or by dry cleaning procedures without loss of their protective features. The following suggestions will help keep your garment safe and neat. Should home procedures not remove contaminants, commercial laundering or dry-cleaning is recommended:

- Launder garments of Dromex® A.P.T™ separate from personal non-flame resistant clothing to help avoid contamination by flammable materials.
- Pre-treat greasy stains and collar/cuff lines.
- Wash garments in warm water with heavy duty detergent.
- Do not use chlorine bleach or detergents containing chlorine bleach.
- Chlorine bleach may cause fading and reduce fabric strength.
- Tumble dry garments at a low setting.
- Remove and hang garments as soon as tumbler stops.
- Do not hang in direct sunlight as fading may occur.
- When using commercial laundry aids, be sure to carefully follow the manufacturer's instructions.

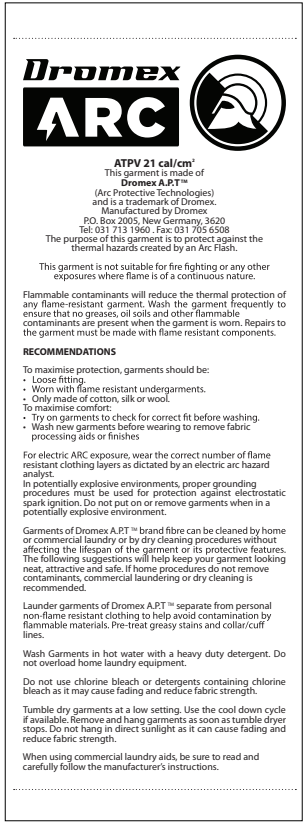


Disposal

All industrial waste should be disposed of correctly according to local regulations and good disposal practice. Please consider recycling.

Marking

TYVEK ATPV LOOP FOLD CARE LABEL



Position:
Shirt - Side seam (Above hem)

DETAIL LABEL



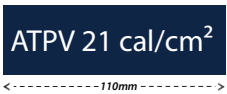
Position:
Left waistband
seam (top layer)

WASH LABEL



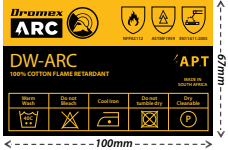
Position:
Left waistband
seam 2nd layer

EMBROIDERY (WHITE THREAD)



Position:
Pants-Back
(centre of right pocket)

MAIN LABEL



Position:
Pants-Left pocket (Inside)

ARC SIDEWINDER LABEL



Position:
Pants-Back (right pocket)

DROMEX ARC BOOKLET



Position:
Tag attached inside garment

BLACK LEATHER PATCH



Position:
Right back waistband

SIZE LABEL



Position:
Left waistband seam
3rd layer

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Arc Flash PPE Categories

Hazard/Risk Category	Required minimum ATPV (Cal/cm²) as per EN	Workwear	Other PPE
HRC 1 	4	        	         
HRC 2 	8	      	    
HRC 3 	25	 	         
HRC 4 	40	  	         

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