



ARC FLASH SUIT ATPV 25 Cal/cm<sup>2</sup>



**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.

This suit consists of the following:

**Jacket features:**

- Concealed brass zip with flame retardant Velcro closure strips.
- Seams are triple needle topstitched for added durability.
- Sleeves feature a flame retardant knitted cuff providing a great seal when used with gloves and prevents sleeves from rolling upwards.
- ATPV 25 cal/cm<sup>2</sup> Embroidery on right hand side of the chest for garment identification.
- Right hand side sleeve with Dromex® Arc heat transfer print.
- 2 Waist pockets with double needle topstitching and Velcro closure.
- 1 Left chest pocket with a mitred flap, concealed Velcro closure and the Dromex® Arc heat transfer print.
- Side slits for a better fit over waist.
- Collared jacket with inner hanger loop.

**Pants features:**

- An elasticated waist with 7 belt loops.
- Rounded back pocket on right hand side with a concealed flame retardant Velcro mitred flap and Dromex® Arc heat transfer print.
- A concealed brass zip at front.
- Side swing pockets.
- All seams with triple needle topstitching for durability.
- Ruler pocket on right with double needle topstitching.
- ATPV 25 cal/cm<sup>2</sup> Embroidery at centre of left back panel for garment identification.

These garments are commonly used in the following industries:

- Utilities & Power Generators
- Automotive
- Construction
- Mining
- Petroleum
- Utilities
- Data centres
- High volume manufacturing

Dromex® A.P.T™ fabrics are self-extinguishing, heat resistant and resistant to ignition. Dromex® Arc garments are sewn with 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 suits 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 suits should be thoroughly inspected before use to ensure no damage is present.

**Specifications**

Style: Sky blue, 2-Piece long sleeve conti suit.  
 Fabric composition: 88% Cotton 12% Nylon.  
 Mass: 14 Ounces  
 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**

Jacket: DW-ARC25-J are packed in a resealable polybag and sold individually.  
 Pants: DW-ARC25-P are packed in a resealable polybag and sold individually.

**Sizes Available**

Jacket: 32-60

Size designation	Nominal measurements of finished garment (cm)			
	Chest circumference	Back length	Back width	Sleeve length
77	94	70	36	47
82	99	71	38	47
87	104	72	40	48
92	109	73	42	48
97	114	74	44	49
102	119	74,5	46	49
107	124	75	48	50
112	129	75,5	50	50
117	134	76	52	51
122	139	76,5	54	51
127	144	77	56	52
132	149	77,5	58	52
137	154	78	60	53
142	159	78,5	62	53
147	164	79	64	54
152	169	79,5	66	54
157	174	80	68	54

Pants: 28-56

Size designation	Nominal measurements of finished garment (cm)		
	Waist extended	Outside leg length	Inside leg length
77/67	80	102	78
82/72	85	104	79
87/77	90	106	80
92/82	95	108	81
97/87	100	110	82
107/92	105	110	82
112/102	115	111	82
117/107	120	111	81
122/112	125	111	81
127/117	130	111	80
132/122	135	111	80
137/127	140	112	80
142/132	145	112	80
147/137	150	113	80
152/142	155	113	80
157/147	160	113	80



## 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:
  - EN 61482-1-2:2014 - LIVE WORKING - PROTECTIVE CLOTHING AGAINST THE THERMAL HAZARDS OF AN ELECTRIC ARC - PART 1-2: TEST METHODS
  - METHOD 2: DETERMINATION OF ARC PROTECTION CLASS OF MATERIAL AND CLOTHING BY USING A CONSTRAINED AND DIRECTED ARC (BOX TEST) (IEC 61482-1-2:2014).
- 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 and 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 and flame -- Minimum performance requirements.

## Cleaning & Maintenance

Garments of Dromex® A.P.T™ brand fibre can be cleaned by home or commercial laundry or by dry cleaning procedures without loss of their inherent 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 overload home laundry equipment.
- 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 sun as fading and reduction of fabric strength can occur.
- When using commercial laundry aids, be sure to carefully follow the manufacturer's instructions.



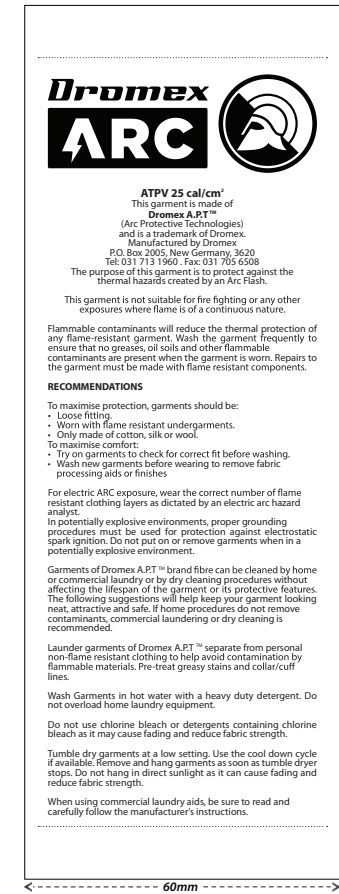
## Disposal

All industrial waste should be disposed of correctly according to local regulations and good disposal practice. Workwear should be disposed of considering the hazardous substances they were used for as well as the material they are made up of.

Please consider recycling.

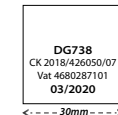
## Marking

### TYVEK ATPV LOOP FOLD CARE LABEL



- Position:
- Jacket - Above side slits (Left hand side)
  - Pants - Inside (below left pocket)

### ORIGIN & YOM LABEL



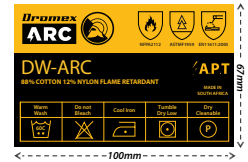
- Position:
- Jacket - Neck
  - Pants - Inside (left pocket)

### EMBROIDERY (WHITE THREAD)



- Position:
- Jacket - Right breast (Centre of panel)
  - Pants - Back left (Centre of panel)

### MAIN LABEL



- Position:
- Jacket - Neck (Inside)
  - Pants - Left pocket (Inside)

### DROMEX ARC BOOKLET



- Position:
- Tag attached inside garment

### ARC HEAT TRANSFER PRINT



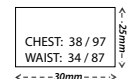
- Position:
- Jacket - Right hand side of sleeve

### ARC HEAT TRANSFER PRINT



- Position:
- Jacket - Left chest pocket flap
  - Pants - Back pocket flap

### SIZE LABEL



- Position:
- Jacket - Neck
  - Pants - Inside (left pocket)

### DROMEX A.P.T. WATERMARK



- Position:
- All over print (Inside fabric)

### Arc Flash PPE Categories

Hazard/Risk Category	FR (flame retardant) Recommended clothing used at this level	Required minimum ATPV (Cal/cm <sup>2</sup> ) as per EN	Workwear	Other PPE
<p>HRC 1</p> 	<ul style="list-style-type: none"> <li>FR shirt (T-shirt short sleeve worn inside Long sleeve shirt) and FR pants; or boilersuits; (Single base layer of FR protection)</li> </ul>	4	 <p>ARC T-SHIRT SS&amp;LS      ARC BOXER SHORT</p>  <p>ARC SHIRT &amp; DENIM JEAN      ARC DUST COAT      ARC X BIB      ARC 2 PIECE CONTI-SUIT      ARC BOILERSUIT</p>	 <p>ARC LEATHER GLOVES      ARC VISOR *(must wear with Balaclava)      ARC BALACLAVA      EARPLUGS</p>
<p>HRC 2</p> 	<ul style="list-style-type: none"> <li>FR under garments (undershirt, underwear)</li> <li>FR shirt and FR pants; or FR boilersuits; (2 or more layers of FR protection)</li> </ul>	8	 <p>ARC SHIRT &amp; DENIM JEAN      ARC DUST COAT      ARC X BIB      ARC 2 PIECE CONTI-SUIT      ARC BOILERSUIT</p>	 <p>DIPPED ARC GLOVES      ARC SWITCHING GLOVES      ARC HARD HAT      ARC ANKLE SAFETY BOOTS</p>
<p>HRC 3</p> 	<ul style="list-style-type: none"> <li>FR under garments (undershirt, underwear), FR shirt, FR jacket, FR pants or FR boilersuits; (2 -3 or more layers of FR protection)</li> </ul>	25	 <p>ARC SUIT      ARC PADDED JACKET</p>	 <p>EARPLUGS      ARC LEATHER GLOVES      ARC HARD HAT      ARC ANKLE SAFETY BOOTS</p> <p>ARC SWITCHING GLOVES      DIPPED ARC GLOVES      ARC VISOR *(must wear with Balaclava)      ARC BALACLAVA</p>
<p>HRC 4</p> 	<ul style="list-style-type: none"> <li>FR under garments (Undershirt, underwear), FR shirt, FR jacket/coat, FR pants or FR boilersuits; (3-4 or more layers of FR protection)</li> </ul>	40	 <p>ARC BIB &amp; BRACE, JACKET AND HOOD WITH VISOR</p>	 <p>ARC SWITCHING GLOVES      ARC LEATHER GLOVES      EARPLUGS      ARC ANKLE SAFETY BOOTS</p>