



## 15 CAL ARC SUIT



OEKO-TEX®



DW-ARC15

### 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 attire consists of the following:

#### Jacket features:

- Silver flame retardant reflective tape on sleeves for enhanced visibility.
- Front opening with concealed flame retardant brass zip and Hook and Loop closure (25mm x 90mm) for ease of putting on and taking off.
- Seams with triple needle topstitching for added durability.
- Sleeves feature a flame retardant knitted cuff providing a great seal when used with gloves and prevents sleeves from rolling upwards.
- Right sleeve with Dromex® Arc heat transfer print.
- 1 Left chest pocket and mitred flap with concealed flame-retardant Hook & Loop closure (25mm x 90 mm) and Dromex Arc heat transfer print.
- ATPV 15 cal/cm<sup>2</sup> embroidery on right hand side of chest for garment suitability identification.
- 2 Rounded waist pockets with concealed flame retardant Hook and Loop closure (25mm x 90mm) .
- Side slits for better fit over waist.

#### Pants features:

- Silver flame retardant reflective tape on legs for enhanced visibility.
- Front opening with concealed flame retardant brass zip, Hook and Loop closure (25mm x opening) and metal button closure for ease of putting on and taking off.
- An elasticated waist with 7 belt loops.
- Seams with triple needle topstitching for added durability.
- Front with side swing pockets.
- Back right hand side with rounded pocket and mitred flap with concealed flame retardant Hook and Loop closure (25mm x 90mm) and Dromex Arc heat transfer print.
- ATPV 15 cal/cm<sup>2</sup> embroidery at centre of left back panel for garment suitability identification.
- Ruler pocket on the right back leg.

These garments are commonly used in the following industries:

- 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 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:	2-Piece collared long sleeve conti suit, with reflective strips, available in navy blue.
Fabric composition:	88% Cotton 12% Nylon.
Mass:	305gsm/9oz.
Reflective:	50mm Silver flame retardant tape.
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

Jacket:	DW-ARC15-J (Navy blue) are packed in a resealable polybag and sold individually.
Pants:	DW-ARC15-P (Navy blue) 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.

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## Sizes Available

Jacket: 30 - 68

Size designation	Nominal measurements of finished garment (cm)				
	Chest circumference	Back length	Back width	Sleeve length	
XS	30/77	94	70	36	47
S	32/82	99	71	38	47
	34/87	104	72	40	48
M	36/92	109	73	42	48
	38/97	114	74	44	49
L	40/102	119	74,5	46	49
	42/107	124	75	48	50
XL	44/112	129	75,5	50	50
	46/117	134	76	52	51
2XL	48/122	139	76,5	54	51
	50/127	144	77	56	52
3XL	52/132	149	77,5	58	52
	54/137	154	78	60	53
4XL	56/142	159	78,5	62	53
	58/147	164	79	64	54
5XL	60/152	169	79,5	66	54
	62/157	174	80	68	54
6XL	64/162	179	80,5	70	54
	66/167	184	81	72	54
7XL	68/182	189	81,5	74	54

Pants: 28 - 66

Size designation	Nominal measurements of finished garment (cm)			
	Waist extended	Outside leg length	Inside leg length	
S	28/72	85	104	79
	30/77	90	106	80
M	32/82	95	108	81
	34/87	100	110	82
L	36/92	105	110	82
	38/97	110	110	82
XL	40/102	115	111	82
	42/107	120	111	81
2XL	44/112	125	111	81
	46/117	130	111	80
3XL	48/122	135	111	80
	50/127	140	112	80
4XL	52/132	145	112	80
	54/137	150	113	80
5XL	56/142	155	113	80
	58/147	160	113	80
6XL	60/152	165	114	80
	62/157	170	114	80
7XL	64/162	175	114	80
	66/167	180	114	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.
  - CE 0338 approved, issued by notified body BTTG for regulation (EU2016/425).

## 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:

- Laundry 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.

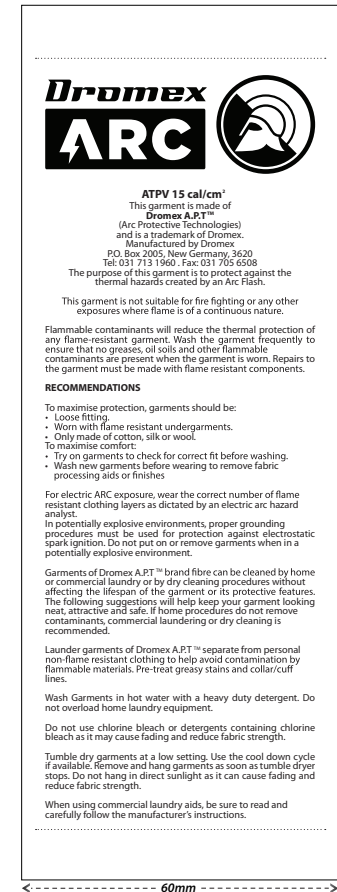


## Disposal

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

## ORIGIN & YOM LABEL



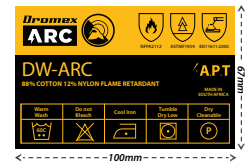
- Position:
- Jacket - Neck
  - Pants - Inside (left pocket)

## 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



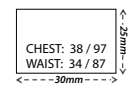
- Position:
- Jacket - Right hand side of sleeve

## 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)

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**Arc Flash PPE Categories**

Hazard/Risk Category	Required minimum ATPV (Cal/cm <sup>2</sup> )	Workwear	Other PPE
<p>HRC 1</p> 	4	 <p>ARC T-SHIRT SS      ARC BOXER SHORT</p>  <p>ARC T-SHIRT LS    ARC SHIRTS &amp; DENIM JEANS    ARC DUST COAT    ARC POSEIDON BOILERSUIT    ARC X BIB    ARC 2 PIECE CONTI-SUIT    ARC BOILERSUIT</p>	 <p>ARC LEATHER GLOVES    ARC VISOR *(must wear with Balaclava)    BSD ARC ERGOS INTEC    ARC BALACLAVA    ARC BLANKET</p>
<p>HRC 2</p> 	8	 <p>ARC T-SHIRT LS    ARC SHIRTS &amp; DENIM JEANS    ARC DUST COAT    ARC POSEIDON BOILERSUIT    ARC X BIB    ARC 2 PIECE CONTI-SUIT    ARC BOILERSUIT</p>	 <p>ARC SWITCHING MITT GLOVES    DIPPED ARC GLOVES    ARC SWITCHING GLOVES    ARC HARD HAT    ARC ANKLE SAFETY BOOTS</p>
<p>HRC 3</p> 	25	 <p>ARC SUIT</p>	 <p>EARPLUGS    ARC BLANKET    ARC LEATHER GLOVES    ARC HARD HAT    ARC ANKLE SAFETY BOOTS</p> <p>ARC SWITCHING MITT GLOVES    ARC SWITCHING GLOVES    ARC VISOR *(must wear with Balaclava)    BSD ARC ERGOS INTEC    ARC BALACLAVA</p>
<p>HRC 4</p> 	40	 <p>ARC PADDED JACKET    ARC BIB &amp; BRACE, JACKET AND HOOD WITH VISOR    ARC BIB &amp; BRACE, JACKET AND HOOD WITH VISOR</p>	 <p>ARC SWITCHING MITT GLOVES    ARC SWITCHING GLOVES    ARC LEATHER GLOVES    ARC BLANKET    ARC ANKLE SAFETY BOOTS</p> <p>EARPLUGS</p>

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