Dromex ARC

ARC FLASH SUIT ATPV 15 Cal/cm²

Decription

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 Velcro strips closure 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 Velcro closure and Dromex Arc heat transfer print.
- ATPV 15 cal/cm² embroidery on right hand side of chest for garment suitability identification.
- 2 Rounded waist pockets with concealed flame retardant Velcro strip closure.
- 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, Velcro strip 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 Velcro strip closure and Dromex Arc heat transfer print.
- ATPV 15 cal/cm² 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 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 and orange.
Fabric composition:	88% Cotton 12% Nylon.
Mass:	305gsm.
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

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

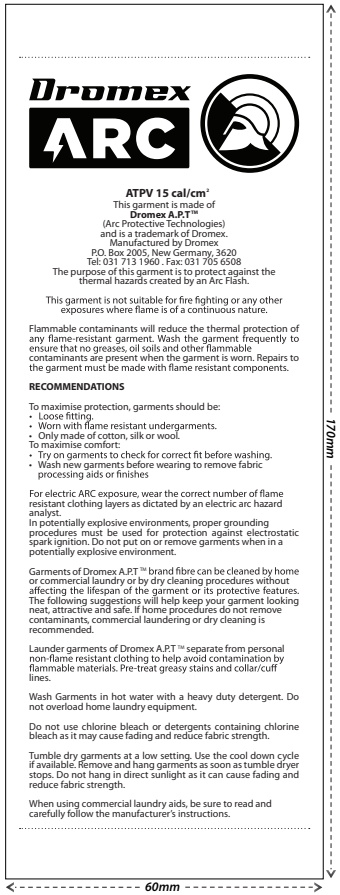
- Launder garments of Dromex® A.P.T™ separate from personal non-flame resistant clothing to help avoid contamination by flammable materials.
- Pre-treat greasy stains and collar/cuff lines.
- Wash garments in warm water with heavy duty detergent.
- Do not overload home laundry equipment.
- Do not use 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)

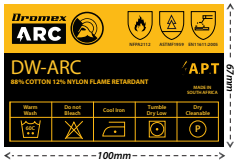
ORIGIN & YOM LABEL

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

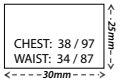
ARC HEAT TRANSFER PRINT

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/cm²) as per EN	Workwear	Other PPE
HRC 1	• FR shirt (T-shirt short sleeve worn inside Long sleeve shirt) and FR pants; or boilersuits; (Single base layer of FR protection)	4	ARC T-SHIRT SS&LS ARC BOXER SHORT ARC SHIRT & DENIM JEAN, ARC DUST COAT, ARC X BIB, ARC 2 PIECE CONTI-SUIT, ARC BOILERSUIT	ARC LEATHER GLOVES ARC VISOR *(must wear with Balaclava) ARC BALACLAVA EARPLUGS
HRC 2	• FR under garments (undershirt, underwear) • FR shirt and FR pants; or FR boilersuits; (2 or more layers of FR protection)	8		DIPPED ARC GLOVES ARC SWITCHING GLOVES ARC HARD HAT ARC ANKLE SAFETY BOOTS
HRC 3	• FR under garments (undershirt, underwear), FR shirt, FR jacket, FR pants or FR boilersuits; (2 -3 or more layers of FR protection)	25	ARC SUIT ARC PADDED JACKET	EARPLUGS ARC LEATHER GLOVES ARC HARD HAT ARC ANKLE SAFETY BOOTS ARC SWITCHING GLOVES DIPPED ARC GLOVES ARC VISOR *(must wear with Balaclava) ARC BALACLAVA
HRC 4	• FR under garments (Undershirt, underwear), • FR shirt, FR jacket/coat, FR pants or FR boilersuits; (3-4 or more layers of FR protection)	40	ARC BIB & BRACE, JACKET AND HOOD WITH VISOR	ARC SWITCHING GLOVES ARC LEATHER GLOVES EARPLUGS ARC ANKLE SAFETY BOOTS