

ARC FLASH SUIT ATPV 12.4 Cal/cm²



Decription

Dromex A.P.T™ (Arc Protective Technologies) 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.

The Dromex A.P.T™ 12.4 cal/cm² attire is suitable for use in category 1 and 2 ARC related hazards.











This attire consists of the following:

Jacket features:

- Flame retardant reflective tape on shoulders for enhanced visibility when working in poor lighting environments.
- Concealed brass zip with flame retardant Velcro strips.
- · Seams with triple needle top stitching.
- · Flame retardant rib knit cuff.
- 2 waist pockets and 1 left breast pocket with a mitred flap and concealed flame-retardant Velcro closure.
- · Side slits for better fit over waist.
- ATPV 12.4 cal/cm² embroidery for garment suitability identification.

Pants features:

- A concealed brass zip at front.
- · Side swing pockets.
- All seams with triple needle top stitching for durability.
- Ruler pocket on right with double needle topstitching

These garments are commonly used in the following industries:

- Automotive
- Construction
- Mining
- Petroleum
- Utilities
- Data centres
- · High volume manufacturing

Dromex A.T.P™ fabrics are self-extinguishing, heat resistant and resistant to ignition.

Special Instructions

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 long sleeve conti suit, with reflective strips,

available in navy blue or orange

Fabric composition: 88% COTTON 12% NYLON

305 GSM Mass: Reflective tape:

Additional: Arc protective suits and visors must be worn with other

arc protective attire and equipment to ensure complete protection against the hazards of arc flash. Refer to table "Arc Flash PPE Categories for further compatible ppe".

Packaging

Pants:

DW-ARC12-J (Navy blue) and DW-ARC-12-OR-J (Orange) Jacket:

are packed in a resealable poly bag and sold individually DW-ARC12-P (Navy blue) and DW-ARC-12P-OR-P (Orange)

are packed in a resealable polybag and sold individually.

Sizes Available

Jacket: 32-60

Size	Nominal measurements of finished garment (cm)				
designation	Chest	Back	Back	Sleeve	
	circumference	length	width	length	
77	94	94 70		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	132 149		58	52	
137	137 154		60	53	
142	142 159		62	53	
147	147 164		64	54	
152	152 169		66	54	
157	174	80	68	54	

Pants: 28-56

Size	Nominal measurements of finished garment (cm)			
designation	Waist	Outside leg	Inside leg	
	extended	length	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	

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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.
- 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.
- ASTM F2178-12 -Standard Test Method for Determining the Arc Rating and Standard Specification for Eye or Face Protective Products.

Cleaning & Maintenance

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. 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. If home procedures do 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.
- Sunlight can cause fading and reduce fabric strength.
- When using commercial laundry aids, be sure to read and carefully follow the manufacturer's instructions.

Tumble

Wash 60C

Do not use Bleach









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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



This garment is made of **Dromex A.P.T™** (Arc Protective Technologi P.O. Box 2005, New Germany, 3620 Tel: 031 713 1960 Fax: 031 705 6508

This garment is not suitable for fire fighting or any other

Flammable contaminants will reduce the thermal protection of any flame-resistant garment. Wash the garment frequently to ensure that no greases, oil soils and other flammable contaminants are present when the garment is worn. Repair so the garment must be made with flame resistant components.

RECOMMENDATIONS

- To maximise protection, garments should be:

 Loose fitting.

 Configuration are resistant undergarments.

 Only made of cotton, silk or wool.

 To maximise comfort:

 Ty on garments to check for correct fit before washing.

 Wash new garments before wearing to remove fabric processing adds of mishites

For electric ARC exposure, 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 electrosta spark ignition. Do not put on or remove garments when in a

Garments of Dromex APT™ brand fibre can be cleaned by homo or commercial laundry or by dry cleaning procedures without affecting the lifespan of the garment or its protective features. The following suggestions will help keep your garment looking neat, attractive and aske. If home procedures do not remove contaminants, commercial abundering or dry cleaning is

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

Wash Garments in hot water with a heavy duty detergent. Do not overload home laundry equipment.

Do not use chlorine bleach or detergents containing chlorine bleach as it may cause fading and reduce fabric strength.

Tumble dry garments at a low setting. Use the cool down cycle if available. Remove and hang garments as soon as tumble dryer stops. Do not hang in direct sunlight as it can cause fading and reduce fabric strength.

When using commercial laundry aids, be sure to read and carefully follow the manufacturer's instructions.

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

MAIN LABEL



· Jacket - Neck (Inside)

· Pants - Left pocket (Inside)

ARC HEAT TRANSFER PRINT



Jacket - Right hand side of sleeve

ARC HEAT TRANSFER PRINT



Position

· Jacket - Left chest pocket flap

EMBROIDERY (WHITE THREAD)



· Jacket - Right breast (Centre of panel)

ORIGIN & YOM LABEL

MADE IN SOUTH AFRICA Y. O. M. 2018 <----35mm---

 Jacket - Neck · Pants - Inside (left pocket)

SIZE LABEL

CHEST: 38 / 97 WAIST: 34 / 87

 Jacket - Neck · Pants - Inside (left pocket)

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Arc Flash PPE Categories

Hazard/Risk Category	Recommended clothing used at this level	Required minimum ATPV (Cal/cm^2) as per EN	Workwear	Other PPE
HRC 1	FR shirt (T-shirt Short sleeve worn inside Long sleeve shirt) and FR pants; or coveralls; (Single base layer of FR protection) FR under garments (undershirt, underwear),	4	ARC T-SHIRT SS&LS	ARC VISOR *(must wear with Balaclava) ARC LEATHER GLOVES ARC BALACLAVA EARPLUGS
	FR shirt and FR pants; or FR coveralls; (2 or more layers of FR protection)	8	ARC SHIRT ARC 2 PIECE ARC PADDED ARC JACKET BOXER SHORT	ARC HARD HAT
	FR under garments (undershirt, underwear), FR shirt, FR jacket, FR pants or FR coveralls; (2 -3 or more layers of FR protection)	25		ARC VISOR *(must wear with Balaclava) ARC LEATHER GLOVES ARC HARD HAT EARPLUGS
HRC 4	(Undershirt, underwear), FR shirt, FR jacket/coat, FR pants or FR coveralls; (3-4 or more layers of FR protection)	40	ARC BIB & BRACE AND HOOD WITH VISOR	EARPLUGS ARC LEATHER GLOVES