



Dromex
ARC



SAFETY IN A PLACE LIKE THIS
SPECIALISED PPE

INNOVATION

INTRODUCING THE DROMEX ARC RANGE



MEETING THE HIGHEST STANDARDS

Dromex believes in uncompromising safety, so we've insisted that the integrity of our specialist ARC range also passes the most stringent garment tests in addition to the fabric tests.

We're proud to be associated with the leading standards authorities locally and internationally enabling us to produce certified ARC workwear.

These standards include:

- IEC 61482-1-1 • IEC 61482-1-2 • NFPA 70E • NFPA 2112
- SANS 724 • ASTM F1959 • ASTM F2621-12
- EN 11611:2015 • EN 11612:2015 • EN 61482-1-2:2014

Through years of consulting with experts, testing fabric combinations and working with world-leading testing facilities, we are proud to bring the Dromex ARC range of workwear and PPE to the global stage.

Dromex is committed to developing quality products, that effectively mitigate risk, which extends to our specialist offering - specifically our ARC range which has been designed to reduce the risks associated with hazardous industries, where 2nd & 3rd degree burns can occur.

Our ARC workwear is manufactured locally using our custom Dromex A.P.TTM (Arc Protection Technologies) fabric and is certified to the highest local and international standards.

Each garment is rated to varying degrees for specific environments and conditions and our ARC range includes a number of styles and accessories for various industries.

Dromex ARC workwear and PPE is suitable during any work with or within the vicinity of industrial electrical panels switch rooms, substations and utilities power generators.

THE SAFETY IS IN THE DETAIL

When it comes to safety, the smallest detail can make a difference. Through extensive research, development, and testing, we've created an ARC range that's every bit as comfortable and practical as it is safe:

- Inherent flame-retardant thread
- Triple needle stitched seams
- Transfer print & embroidery logos
- Flame-retardant Velcro
- Double needle stitched FR reflective tape



At Dromex we believe that all employees are entitled to maximum safety protection and that employers should never have to compromise on the quality of protective equipment they supply their staff.

Our Arc range ensures that we deliver on that promise.

KINETRICS
Leader in Testing, ISO/IEC 17025:2005

Test Performed for:
DROMEX
1 BLASE ROAD,
New Germany Industrial Park,
Durban, KwaZulu Natal,
South Africa

Garment Evaluation
DW-ARC 12.4 cal – 2 P.C Workwear Conti Suit

OBSERVATION OF WORK GARMENTS EXPOSED
TO AN ELECTRIC ARC
ASTM F2621 - 12 Standard Practice for Determining Response Characteristics and Design Integrity of Arc Rated
Wearable Products in an Electric Arc Exposure
IEC 61482-1-1:2009 Low working - Positive Clothing Against the Thermal Hazards of an Electric Arc

Kinectrics Inc. Report No.: **K-352073-02-R00**
Item received: June 29, 2018
Test Date: July 5, 2018

Reviewed by: **Andrew Haines**
2018.08.08
18:04:41 -0400'
Technologies, HCL
Kinectrics Inc.
Toronto, ON, CA

Approved by: **Karwin Chang, P. Eng. MBA**
Project Manager, DAM
Kinectrics Inc.
Toronto, ON, CA

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aitex
Textile Research Institute

TEST SUMMARY

Test Summary: **17CH0645**
Order by the company:

DROMEX
UNIT 1, 1 BLASE ROAD, NEW GERMANY,
3620 SOUTH AFRICA
29/07/2018 NEW GERMANY

Complies with the requirements of the standards:

EN ISO 11612:2015 Protective clothing, Clothing to protect against heat and flame.
 6.2 Heat resistance (HT/IC) - Pass (1/5 cycles washing, ON, Tumble Dryer F)
 6.3 Flame spread (F) - Pass (1/5 cycles washing, ON, Tumble Dryer F)
 6.4 Dimensional change due to washing - Pass (1/5 cycles washing, ON, Tumble Dryer F)
 6.5 Tear strength - Pass (1/5 cycles washing, ON, Tumble Dryer F)
 6.6 Impact of rupture - Pass (1/5 cycles washing, ON, Tumble Dryer F)
 6.7 Tear strength - Pass (1/5 cycles washing, ON, Tumble Dryer F)
 6.8 Electrical resistance - Pass (1/5 cycles washing, ON, Tumble Dryer F)
 6.9 Chemical resistance - Pass (1/5 cycles washing, ON, Tumble Dryer F)
 6.10 Electrical resistance - Pass (1/5 cycles washing, ON, Tumble Dryer F)

EN ISO 11611:2015 Protective clothing for use in welding and allied processes.
 6.2 Tear strength - Pass (1/5 cycles washing, ON, Tumble Dryer F)
 6.3 Heat resistance - Pass (1/5 cycles washing, ON, Tumble Dryer F)
 6.4 Dimensional change due to washing - Pass (1/5 cycles washing, ON, Tumble Dryer F)
 6.5 Tear strength - Pass (1/5 cycles washing, ON, Tumble Dryer F)
 6.6 Impact of rupture - Pass (1/5 cycles washing, ON, Tumble Dryer F)
 6.7 Tear strength - Pass (1/5 cycles washing, ON, Tumble Dryer F)
 6.8 Electrical resistance - Pass (1/5 cycles washing, ON, Tumble Dryer F)
 6.9 Chemical resistance - Pass (1/5 cycles washing, ON, Tumble Dryer F)
 6.10 Electrical resistance - Pass (1/5 cycles washing, ON, Tumble Dryer F)

EN 61482-1-2:2014 Low 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 controlled and directed arc (20 kV test).
 4.1 Arc rating - Positive clothing against the thermal hazards of an electric arc (20 kV test method) - Meeting 2: Determination of arc protection class of material and clothing by using a controlled and directed arc (20 kV test) - Class 1

Remarks: washing instructions according to Standard ISO 6330:2012, method D1 and D2 (30 min tumble dry).

This method provides information as seen in the testing reports.

Signed by: **Raquel Munoz Gonzalez**
Manager Innovation Area
Date: 2018.08.08
Time: 10:00:00

CERTIFICATE OF COMPLIANCE

Certificate Number: 20170508-MH62176
Report Reference: MH62176-20170407
Issue Date: 2017-06-05

Issued to: **DROMEX**
UNIT 1, 1 BLASE ROAD
NEW GERMANY, 3620 SOUTH AFRICA

This is to certify that representative samples of Protective Clothing for Protection of Industrial Personnel Against Flash Fire - Component Models: DROMEX F.P.T 10oz 100% Cotton FR Fabric, DROMEX A.P.T 7oz Cotton/Nylon, DROMEX A.P.T 8oz Cotton/Nylon

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: **NFPA 2112-Standard on Flame-Resistant Garments for Industrial Personnel Against Flash Fire**

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information.

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

The UL Recognized Component Mark generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Testing" for the particular recognition as published in the appropriate UL directory. As a supplementary means of identifying products that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark may be used in conjunction with the required Recognized Component Mark. The Recognized Component Mark is required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual recognitions.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.

UL

Page 1 of 1



NEWS

DROMEX GLOBALE: THE NEW ERA OF WORKWEAR

At Dromex we're committed to providing customers with only the best PPE and Workwear, and this means we're always looking at new ways of improving our range.

To achieve our goal of being Africa's premier PPE supplier, we've built our own 8000m² state-of-the-art manufacturing facility at the new intermodal Keystone Park hub in Hammarsdale to ensure we deliver on that promise.

Dromex Globale is an SABS approved facility, dedicated to manufacturing all Dromex workwear at competitive prices with uncompromising quality, conforming to the highest standards.

Our workwear factory is BBBEE Certified and successfully provided 500 jobs at commencement with an additional 600 jobs within the next 18-36 months.

The in-house Training Facility will endeavour to upskill the youth of Hammarsdale resulting in an empowered workforce.

Designed with the stringent needs of local and international markets in mind, Dromex Globale will change the way we supply workwear.

THE FUTURE OF PPE BEGINS TODAY

Dromex believes that all employees are entitled to maximum protection and that employers should never have to compromise on the quality of the personal protective products they supply their staff.

And with our new Dromex Globale manufacturing facility, you can be sure you're dealing with a company that puts safety first.





WORKWEAR STANDARDS

SABS is a statutory body that was established in terms of the Standards Act. These standards, SANS (South African National Standards) promote quality in connection with commodities, products and services. SABS mark bearing products are made under a permit from the SABS for specific products made to SANS standards by a registered manufacturer and include quality audits and verification.

SANS 434: This standard specifies requirements for the material, cut, make and trim of boilersuits, two-piece workwear suits, bib and brace overalls and coats and jackets (unlined) but does not cover garments designed for the protection against specific hazards. This covers the materials, workmanship, styles, sizes, makeup of the suits, stitches & seams.

SANS 1387: South African National Standard woven cotton and similar apparel fabrics. This covers 11 types of fabric, however the parts 1 to 4 are relevant to the workwear.

Part 4 is for cotton jean and drill fabrics.

J54 - Jean material with a 2/1 twill weave, 220g/m² minimum.

D59 - Drill material with a 4/1 satin weave, 270/m² minimum.

SANS 1423: Part 1 is for performance requirements for textile fabrics of low flammability. The standard covers the flammability performance requirements for four classes of washable apparel fabric, each class being divided into three flammability performance categories. NOTE The use of certain fabric combinations, trims, accessories and sewing threads that are not compatible can have an adverse effect on the flammability performance of a garment.

Fabric Class:

Class A: Capable of withstanding the required industrial or hospital laundry processes given in SANS 10146

Class B: Capable of withstanding wash treatments at temperatures of up to 95 °C

Class C: Capable of withstanding wash treatments at temperatures of up to 60 °C

Class D: Capable of withstanding wash treatments at temperatures of up to 40 °C

Flammability Category:

Category 1: The fabric does not ignite within a given time period.

Category 2: The fabric ignites within a given time period but the flame spread ceases within a specified distance.

Category 3: The fabric ignites within a given time period and might continue to flame but at a rate of flame propagation that is within a specified limit.

SANS 724: Personal Protective Equipment & Protective Clothing against thermal hazards of an electric Arc.

Design, selection and performance requirements of electric arc resistant clothing and equipment for the protection of persons against the thermal hazards of an electric arc, which could occur during operating or working on or near electrical equipment in the workplace.

SANS 61482 Live working, Protective clothing, against the thermal hazards of an electric arc. Part 1 is IEC 61482-1-1 determination of the arc rating (ATPV or EBT50) of flame resistant materials for clothing. IEC 61482-1-1 Method A is identical to ASTM F1959, with the exception of different laundry preconditioning requirements.

SANS 50471 EN 471 High-visibility warning clothing for professional use - test methods and requirements.

NFPA: The NFPA (National Fire Protection Association) is a United States trade association, albeit with some international members, that creates and maintains private, copyrighted standards and codes for usage and adoption by local governments.

NFPA 1975 Provisions apply to design, performance, testing and certification of non-primary protective work apparel and the individual garments comprising work apparel.

Specifies criteria for thermally stable textiles that will not rapidly deteriorate, melt, shrink, or adhere to the wearer's skin, and also provides optional requirements and tests to verify flame resistance, odour resistance, water resistance and insect repellancy.

NFPA 70E Safe work practices to protect personnel by reducing exposure to major electrical hazards. NFPA 70E helps companies and employees avoid workplace injuries and fatalities due to shock, electrocution, arc flash, and arc blast.

The Standard includes guidance for making hazard identification and risk assessments, selecting appropriate PPE, establishing an electrically safe work condition and employee training.

NFPA 2112 This standard protects workers from flash fire exposure and injury by specifying performance requirements and test methods for flame-resistant fabric and garments. Criteria cover design, construction, evaluation and certification of flame-resistant garments for use by industrial personnel, with the intent of not contributing to the burn injury of the wearer, providing a degree of protection to the wearer and reducing the severity of burn injuries resulting from short-duration thermal exposures resulting from accidental exposure to flash fires.

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies, ISO member bodies. International Standards are carried out through ISO technical committees and each member of the body has the right to be represented.

ISO 13688 This International Standard specifies general performance requirements for ergonomics, innocuousness, size designation, ageing, compatibility and marking of protective clothing and the information to be supplied by the manufacturer with the protective clothing. This International Standard is only intended to be used in combination with other standards containing requirements for specific protective performance and not on a stand-alone basis.

ISO 6530 This International Standard specifies a test method for the measurement of indices of penetration, absorption and repellence for protective clothing materials against liquid chemicals, mainly chemicals of low volatility. Two levels of the potential performance of materials are assessed by this method of testing to meet with possible requirements for protection against:

a) deposition on the surface of a material, at minimal pressure, of spray droplets up to coalescence or occasional small drips;

b) contamination by a single low-volume splash or low-pressure jet, allowing sufficient time to divest the clothing or take other action as necessary to eliminate any hazard to the wearer from chemical retained by the protective garment, or, in circumstances where pressure is applied to liquid contaminants on the surface of the clothing material, as a result of natural movements of the wearer (flexing of contaminated areas of clothing at arms, knees, shoulders) and contact with contaminated surfaces (e.g. walking through sprayed foliage). The tested chemicals for the South African market are: HNO₃ (Nitric Acid), HCl (Hydrochloric Acid), H₂SO₄ (Sulphuric Acid) and NaOH (Sodium Hydroxide).



DROMEX WORKWEAR SIZING CHART

ALPHA NUMERIC	XS	S	M	L	XL	2XL	3XL	4XL	5XL	6XL									
SABS SANS 434	30/77	32/82	34/87	36/92	38/97	40/102	42/107	44/112	46/117	48/122	50/127	52/132	54/137	56/142	58/147	60/152	62/157	64/162	66/167
CHEST CIRCUMFERENCE	94	99	104	109	114	119	124	129	134	139	144	149	154	159	164	169	174	179	184
LONG SLEEVES	47	47	48	48	49	49	50	50	51	51	52	52	53	53	54	54	54	54	54
WAIST EXTENDED	26/67	28/72	30/77	32/82	34/87	36/92	38/97	40/102	42/107	44/112	46/117	48/122	50/127	52/132	54/137	56/142	58/147	60/152	62/157
OUTSIDELEG	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170
INLEG	102	104	106	108	110	110	111	111	111	111	111	111	112	112	113	113	113	114	114
EXECUTIVE FIT	30/77	32/82	34/87	36/92	38/97	40/102	42/107	44/112	46/117	48/122	50/127	52/132	54/137	56/142	58/147	60/152	62/157	64/162	66/167
CHEST SIZE	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	180
BACK LENGTH	67	68	69	70	71	72	73	74	74	74	75	75	76	76	77	77	78	78	78
SLEEVE LENGTH	49	49	50	50	51	51	52	52	53	53	54	54	55	55	56	56	57	57	57
BACK WIDTH	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	70
WAIST EXTENDED	26/67	28/72	30/77	32/82	34/87	36/92	38/97	40/102	42/107	44/112	46/117	48/122	50/127	52/132	54/137	56/142	58/147	60/152	60/152
OUTSIDELEG	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	160
INLEG	94	96	98	100	102	102	103	103	103	103	103	103	104	104	105	106	106	106	106
COMFIT	30/77	32/82	34/87	36/92	38/97	40/102	42/107	44/112	46/117	48/122	50/127	52/132	54/137	56/142	58/147	60/152	62/157	64/162	64/162
CHEST SIZE	92	97	102	107	112	117	122	127	132	137	142	147	152	157	162	167	172	177	177
BACK LENGTH	64	64.5	65	65.5	66	66.5	67	67.5	68	68.5	69	70	70.5	71	71.5	72	72.5	73	73.5
SLEEVE LENGTH	43	43	43	44	45	45	45	45	46	46	47	47	48	48	49	49	50	50	50
BACK WIDTH	41	42.5	45.05	45.5	47	48.5	50	51.5	53	55	56	57.5	59	60.5	62	63.5	65	66.5	66.5
WAIST EXTENDED	26/67	28/72	30/77	32/82	34/87	36/92	38/97	40/102	42/107	44/112	46/117	48/122	50/127	52/132	54/137	56/142	58/147	60/152	60/152
OUTSIDE LEG	72	77	82	87	92	97	102	107	112	117	122	127	132	137	142	147	152	157	162
INLEG	96.5	97.5	98.5	100	101	102.5	103.5	105	106	107.5	108.5	110	111	112.5	113.5	114.5	115.5	116.5	116.5
	71.5	72	72.5	73	73.5	74.5	75	75.5	76.5	77	77.5	78.5	79	80	80.5	81	81.5	82	82

FABRIC COLOUR KEY





Q&A

What is an Arc Flash?

An Arc Flash is a potentially fatal explosion of extreme light & radiant heat as a result of a short circuit on an electrical panel that can be caused by dust, dropping tools, accidental touching, condensation, corrosion or a faulty installation.

An Arc Flash can reach temperatures of up to 20 000°C and can cause permanent and often deadly injuries.

What are the hazards and dangers of an Arc Flash?

For the worker, injuries caused by an Arc Flash can be severe depending on the distance of work, the incident energy and the duration of the Arc Flash.

Possible injuries include second & third degree burns from the extreme heat of the blast, burns from airborne molten metal, metal oxides & vaporised copper, concussion & head injuries, hearing impairment and damaged eyesight.

An Arc Flash can also cause fire in the surrounding work areas.

How is Arc Flash energy measured?

Arc Flash energy is measured in calories/cm².

A calorie is the energy required to raise one gram of water to one degree celcius at one atmosphere. Secondary burns can occur from just 1.2cal/cm².

What is the accepted worker incident energy level?

Industry standards and government agencies agree that 1.2 to 2.0cal/cm² is an acceptable worker incident energy level.

The exposure to arc radiant heat energy has the possibility of causing 2nd degree burns of the epidermis and shows as painful red skin or blisters.

Controlling worker's incident energy reduces the severity of burn injuries and saves lives. Methods used to reduce worker incident energy levels are to reduce Arc Flash current and clearing time, move the worker farther from potential Arc, wear correct Arc Thermal Performance Value (ATPV) & Flame Resistant (FR) clothing system, and change the work method to a lower Arc incident energy.

FABRIC TESTING vs GARMENT TESTING

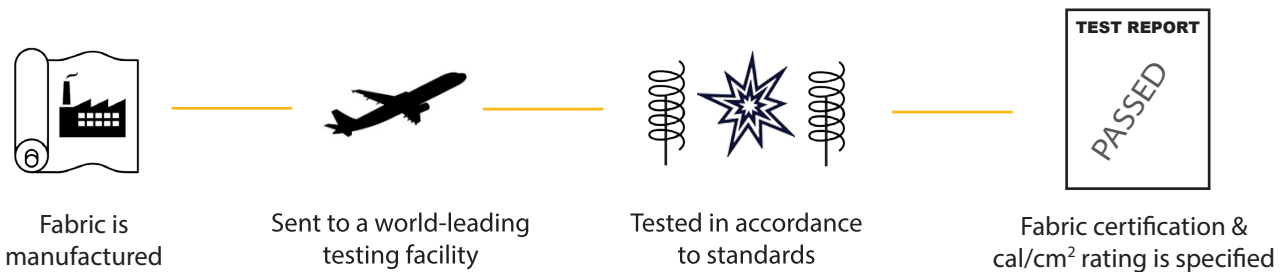


Arc Fabric & Garment tests are vital to ensure that both FR fabrics and the constructed garment pass the necessary international requirements for Arc Workwear and ultimately worker safety.

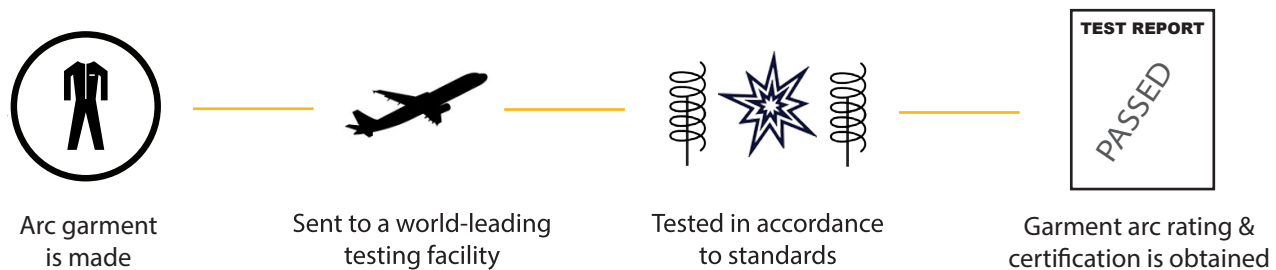
Arc fabric testing is done first to ensure that the fabric passes the required ratings & quality standards.

Thereafter the Arc garment is fully constructed using the certified fabric mannequin tested to ensure performance & appropriate protection.

• Arc Fabric Testing Process:



• Arc Garment Testing Process:



IMPORTANT: Always request a *FABRIC TEST* report & certificate in addition to the *GARMENT INTEGRITY TEST*.

A reputable supplier should be able to produce BOTH certificates upon request.



UNDERSTANDING ARC WORKWEAR

FR COTTON vs INHERENT FABRICS

> FLAME RETARDANT COTTON FABRICS:

FR Cotton fabrics have had flame retardants engineered into the fabric to create flame resistance thereby producing fabrics that have guaranteed flame retardancy for the life of the garment.

> INHERENT FLAME RETARDANT FABRICS:

'Inherent fabrics' consist of synthetic fibre that do not require additional FR chemical treatments - each fibre is 'inherently' flame retardant.

All FR fabrics (inherent & treated) are engineered to prevent ignition. While the fabrics are essentially different, technological advancements and development means that the efficacy of both fabrics are very similar and choosing Arc workwear should be based on:

- Arc hazard & environment of use
- Performance & certifications
- Comfort & quality
- Durability
- Value & availability
- Brand reputation

Did You Know?

Dromex A.P.T™ FR Cotton Fabric has passed "Red Metal" testing which offers additional bodily protection from Molten Metal, Vaporised Copper & Metal Oxides up to 1400°C. This offers the wearer effective protection and peace of mind.

Molten metal is a deadly hazard that can easily penetrate synthetic lightweight fabrics during an Arc Flash incident.



ArcWear
3018 Eastpoint Parkway
Louisville, Kentucky 40223

Page 1 of 1

Date: 12/12/2019 Test Report: 1911P05-X
 Client: Dromex
 1 Blesé Road, New Germany
 Durban, KZN
 South Africa 3620
 Sample(s) Received: 10/14/2019
 Dromex, Style Dromex A.P.T., 9.0 oz/yd² 305 g/m² Woven, 88% FR Cotton 12% Nylon,
 Sample Description (provided by client): Navy, AAD 9.7 oz/yd² 329 g/m², ArcWear# 1911P05
 Testing Date: 12/6/2019
 Procedure: Testing was completed in accordance with the method identified below at ArcWear in
 Louisville, Kentucky.

FLAMMABILITY TESTING

When a garment is tested for flammability against the NFPA 2112 standard it has already been washed 100 times before NFPA 2112 tests are applied.

At Dromex we believed in the superior quality of our fabric and took this test one step further.

Our Dromex A.P.T™ fabric was tested against the NFPA 2112 standard and passed after 200 washes.

ARC WORKWEAR LIFESPAN

The lifespan of an Arc garment is dependent on many factors such as wash care, storage between use and wear and tear during use.

E.g. If the garment has been in use for 3 weeks and a worker is exposed to an Arc Flash incident the workwear and PPE needs to be replaced therefore the lifespan of the garment has ended. Likewise if Arc workwear & PPE is damaged during use, it needs to be removed from service and replaced immediately.

Dromex A.P.T. 200 Wash Certificate

ASTM D3776/D3776M						
Standard Test Method for Mass per Unit Area Fabric Weight-Option C Small Swatch						
Preconditioning:	200 cycles of washing and drying as specified in sec 8.1.3 of NFPA 2112-18					
Conditioning:	ASTM D1776					
Slevages Included:	No					
Fabric Mass (oz/yd²):	10.18					
Fabric Mass (g/m²):	345					
ASTM D6413/D6413M-15						
Standard Test Method for Flame Resistance of Textiles (Vertical Test)						
Preconditioning:	200 cycles of washing and drying as specified in sec 8.1.3 of NFPA 2112-18					
Length Direction						
	1	2	3	4	5	AVG Length
Afterflame Time (sec)	0.2	0.2	0.0	0.0	0.0	0.1
Afterglow Time (sec)	1.0	1.0	1.2	1.2	1.0	1.1
Char Length (mm)	78	78	72	75	81	77
Melting?	No	No	No	No	No	
Dripping?	No	No	No	No	No	
Width Direction						
	1	2	3	4	5	AVG Width
Afterflame Time (sec)	0.2	0.2	0.0	0.0	0.0	0.1
Afterglow Time (sec)	1.2	1.4	1.0	1.0	1.4	1.2
Char Length (mm)	61	75	78	72	78	73
Melting?	No	No	No	No	No	
Dripping?	No	No	No	No	No	

Signed for the Company by:

Jill Kirby
 Lab Manager
 ArcWear

Digitally signed by Jill Kirby
 Date: 2019.12.12 09:22:11 -05'00'

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ARC THERMAL PROTECTION VALUE

ATPV is the embroidered or printed markings on all Arc workwear & PPE.

ATPV is measured in cal/cm² and is defined as the maximum incident heat energy that a fabric can absorb and lessen the injury against a 2nd or 3rd degree burn.

For example, if a worker has the potential to be exposed to an incident where the heat energy level is less than 4.0 cal/cm², the required ATPV clothing & PPE is a minimum of 4 cal/cm².



HEAT ATTENUATION FACTOR (HAF)

HAF refers to the amount of heat blocked by the FR fabric. Though a fabric may be flame resistant, it may not block all of the heat to which it is exposed. An HAF of 85% means that it will block 85% of the heat the fabric encounters. This applies to a short burst of heat - usually less than one second. In the event of prolonged heat exposure, the HAF would be lower.

Note: Synthetic fabrics generally have a lower HAF than Cotton FR Fabrics.

ARC WORKWEAR & PPE SELECTION

HAZARD / RISK CATEGORY	CLOTHING DESCRIPTION RECOMMENDED	MINIMUM REQUIRED ARC RATING OF PPE CAL/CM ²
	Arc Rated FR shirt & FR pants or coverall	4
	Arc Rated FR shirt & FR pants or coverall	8
	Arc rated FR shirt or FR pants or FR coverall and arc flash suit selected so that the system arc rating meets the required minimum	25
	Arc rated FR shirt or FR pants or FR coverall and arc flash suit selected so that the system arc rating meets the required minimum	40

NOTE: Energy / Incident Analysis & Calculation assessments are available on request to ensure correct Arc Workwear & PPE selection according to the arc hazard present.



100CAL ARC SUIT BIB & BRACE, JACKET & HOOD



OEKO-TEX®

CODES: DW-ARC100-J / BP (JACKET / BIP PANTS)
DH-ARC100-SH (SWITCHING HOOD)
DG-ARC100 (SWITCHING GLOVE)
DH-ARC100-KIT (JACKET/PANTS/VENTILATED HOOD, GLOVES)

NFPA 2112, NFPA 70E, SANS 724, ASTM F2621-12, EN 11612:2015,
EN 61482-2-2:2020
HOOD: ASTM F2178-12
GLOVE: ASTM F2675

- ATPV 100cal/cm²
- Dromex A.P.T Fabric - 88% Cotton, 12% Nylon
- Triple layer construction: 14oz outer, 250gsm meta aramid FR mat lining & 14oz inner
- Inherent flame retardant thread throughout
- Fully triple needle stitched garment
- Concealed YKK Vizlon zip on jacket
- Flame retardant Velcro closures
- Flame retardant knitted rib cuffing
- cal/cm² Rating embroidery on hood, jacket, bib & brace and gloves

Hood:

- Back flap with Velcro closure for built-in fan/air system
- Flame retardant Velcro closures
- Dromex BSD 100cal/cm² Arc Visor with *Real View Technology*
- Integrated fresh air arc flash ventilation system for cooling

Sizes:

- Jackets: S - 5XL
- Bib & Brace: S - 5XL
- Gloves: S/M & L/XL (see pg 40 for more info)

Suitable Use:

- Substations & switchrooms
- Utilities & power generators
- Industrial electrical maintenance & installations
- Mining, chemical & refineries



55CAL ARC SUIT BIB & BRACE, JACKET & HOOD

CODES: DW-ARC55-J / BP (JACKET / BIB PANTS)
DH-ARC55-SH (SWITCHING HOOD)
DH-ARC55-SHV (SWITHING HOOD WITH VENTILATION)



EN



OEKO-TEX®

IEC 61482-1-1, NFPA 2112, NFPA 70E, SANS 724,
ASTM F1959, ASTM F2621-12, EN 11612:2015
HOOD: ASTM F2178-12

- APTV 55cal/cm²
- Dromex A.P.T Fabric - 88% Cotton, 12% Nylon
- Double layer construction: 14oz & 9oz inner
- Inherent flame retardant thread throughout
- Fully triple needle stitched garment
- YKK Concealed brass zips on jackets & pants
- Flame retardant Velcro closures
- Flame retardant knitted rib cuffing
- cal/cm² Rating embroidery on hood, jacket, bib & brace

Hood:

- Back flap with velcro closure for built-in fan/air system
- Flame retardant velcro closures throughout
- Dromex BSD Arc Visor with *Real View Technology*
- Available with or without ventilation

Sizes:

- Jackets: S - 5XL
- Bib & Brace: S - 5XL

Suitable Use:

- Substations & switchrooms
- Utilities & power generators
- Industrial electrical maintenance & installations
- Mining, chemical & refineries





25CAL ARC SUIT

CODE: DW-ARC25-J / P



OEKO-TEX®

IEC 61482-1-1, NFPA 2112, NFPA 70E, SANS 724,
ASTM F1959, ASTM F2621-12, ASTM 1506-19,
EN 11612:2015

- ATPV 25cal/cm²
- 14oz Dromex A.P.T Fabric - 88% Cotton, 12% Nylon
- Flame retardant thread throughout
- YKK Concealed brass zips on jacket & pants
- Flame retardant velcro closures
- Fully triple needle topstitched garment
- Flame retardant knitted rib cuffing
- Three jacket pockets with mitred flap & flame retardant Velcro closure & side swing pocket on pants
- cal/cm² Rating embroidery on jacket & pants

Sizes:

- Jackets: S - 5XL
- Pants: S - 5XL

Suitable Use:

- Substations & switchrooms
- Utilities & power generators
- Industrial electrical maintenance & installations
- Mining, chemical & refineries



15CAL ARC SUIT

CODE: DW-ARC15-J / P



OEKO-TEX®

IEC 61482-1-1, IEC 61482-1-2, NFPA 2112, NFPA 70E,
SANS 724, ASTM F1959, ASTM F2621-12, EN 11611:2015,
EN 11612:2015, EN 61482-1-2:2014, CE 0338:2016

- ATPV 15cal/cm²
- Dromex A.P.T Fabric - 88% Cotton 12% Nylon, 305gsm
- Flame retardant thread throughout
- YKK concealed brass zip on jacket & pants
- Flame retardant velcro closures
- Full triple needle topstitched garment
- Flame retardant knitted rib cuffing
- Three jacket pockets with mitred flap & flame retardant Velcro closure & side swing pockets on pants
- 50mm Flame retardant reflective tape on arms & legs
- cal/cm² Rating embroidery on jacket & pants

Sizes:

- Jackets: 32 - 68
- Pants: 28 - 66

Suitable Use:

- Substations & switchrooms
- Utilities & power generators
- Industrial electrical maintenance & installations
- Mining, chemical & refineries





12.4CAL ARC SUIT

CODE: DW-ARC12-OR



OEKO-TEX®

IEC 61482-1-1, IEC 61482-1-2, NFPA 2112, NFPA 70E, SANS 724, ASTM F1959, ASTM F2621-12, EN 11611:2015, EN 11612:2015, EN 61482-1-2:2014, CE 0338:2016

- ATPV 12.4 cal/cm²
- Dromex A.P.T Fabric - 88% Cotton 12% Nylon, 305gsm
- Flame retardant thread throughout
- YKK concealed brass zip on jacket & pants
- Flame retardant velcro closures
- Full triple needle topstitched garment
- Flame retardant knitted rib cuffing
- Three jacket pockets with mitred flap & flame retardant Velcro closure & side swing pockets on pants
- 50mm Flame retardant reflective tape on arms & legs
- cal/cm² Rating embroidery on jacket & pants

Sizes:

- Jackets: 32 - 60
- Pants: 28 - 56

Suitable Use:

- Substations & switchrooms
- Utilities & power generators
- Industrial electrical maintenance & installations
- Mining, chemical & refineries

Dromex
ARC



15CAL ARC BOILERSUIT

CODE: DW-ARC15-0



OEKO-TEX®

IEC 61482-1-1, IEC 61482-1-2, NFPA 2112, NFPA 70E,
SANS 724, ASTM F1959, ASTM F2621-12, EN 11611:2015,
EN 11612:2015, EN 61482-1-2:2014, CE 0338:2016

- ATPV 15 cal/cm²
- Dromex A.P.T Fabric - 88% Cotton 12% Nylon, 305gsm
- Flame retardant thread throughout
- YKK concealed brass zip
- Flame retardant velcro closures
- Triple needle topstitched garment
- Flame retardant knitted rib cuffing
- Two breast pockets with mitred flap & flame retardant Velcro closure & side entry hip pockets
- 50mm Flame retardant reflective tape on arms, legs & "X" on back
- cal/cm² Rating embroidery on right breast pocket flap

Sizes: 30 - 64

Suitable Use:

- Substations & switchrooms
- Utilities & power generators
- Industrial electrical maintenance & installations
- Mining, chemical & refineries





NEW

LADIES 15CAL ARC SUIT

CODE: DWL-ARC15-J / P



OEKO-TEX®

IEC 61482-1-1, IEC 61482-1-2, NFPA 2112,
NFPA 70E, SANS 724, ASTM F1959, ASTM F2621-12,
EN 11611:2015, EN 11612:2015, EN 61482-1-2:2014

- APTV 15cal/cm²
- Dromex A.P.T Fabric - 88% Cotton, 12% Nylon, 305gsm
- Triple needle topstitched garment
- Flame retardant throughout
- YKK Concealed brass zips on jackets & pants
- Flame retardant Velcro closures
- Full triple needle topstitched garment
- Flame retardant knitted rib cuffing
- Three jacket pockets with mitred flap & flame retardant Velcro closure & side swing pockets on pants
- cal/cm² Rating embroidery on jacket & pants
- 50mm Flame retardant reflective tape on arms & legs

Sizes: S - 5XL

Suitable Use:

- Substations & switchrooms
- Utilities & power generators
- Industrial electrical maintenance & installations
- Mining, chemical & refineries



Dromex
ARC



15CAL ARC SHIRT

CODE: DW-ARC12,4



OEKO-TEX®

IEC 61482-1-1, IEC 61482-1-2, NFPA 2112, NFPA 70E, ASTM F1959,
ASTM F2621-12, EN 11611:2015, EN 61482-1-1:2009
EN 11612:2015, EN 61482-2:2009, CE 0338:2016

- ATPV 15 cal/cm²
- Dromex A.P.T Fabric - 88% Cotton 12% Nylon, 305gsm
- Flame retardant thread throughout
- Flame retardant melamine buttons
- Triple needle topstitched garment
- Two mitred breast pockets with double needle topstitching & mitred flap
- 50mm Lime/silver/lime FR reflective tape
- cal/cm² Rating embroidery on right breast

Sizes: S - 5XL

Suitable Use:

- Substations & switchrooms
- Utilities & power generators
- Industrial electrical maintenance & installations
- Mining, chemical & refineries





9.6CAL ARC SHIRT

CODE: DW-ARC9,6



OEKO-TEX®

IEC 61482-1-2, NFPA 2112, NFPA 70E, ASTM F2621-12,
EN 11611:2015, EN 11612:2015

- ATPV 9.6 cal/cm²
- Dromex A.P.T Fabric - 88% Cotton 12% Nylon, 237gsm
- Flame retardant thread throughout
- Flame retardant melamine buttons
- Triple needle topstitched garment
- Two mitred breast pockets with double needle topstitching & mitred flap
- 50mm silver FR reflective tape
- cal/cm² Rating embroidery on right breast

Sizes: S - 5XL

Suitable Use:

- Substations & switchrooms
- Utilities & power generators
- Industrial electrical maintenance & installations
- Mining, chemical & refineries



40CAL ARC THERMAL JACKET

CODE: DW-ARC40-WJ



OEKO-TEX®

NFPA 2112, EN 11611:2015, EN 11612:2015

- ATPV 40 cal/cm²
- Dromex A.P.T Fabric - 88% Cotton 12% Nylon, 305gsm (Outer fabric & lining)
- Flame retardant wadding interlining
- Flame retardant thread throughout
- Flame retardant Velcro on pockets & front closure
- Flame retardant rib knit cuffing on sleeves
- cal/cm² Rating embroidery on right breast
- 50mm Flame retardant reflective tape on arms
- Double needle topstitching on armholes & shoulders
- Rounded chest pocket and mitred flap with FR Velcro closure
- Concealed YKK chunky nylon zip with 25mm FR Velcro closure

Sizes: S - 5XL

Suitable Use:

- Substations & switchrooms
- Utilities & power generators
- Industrial electrical maintenance & installations
- Mining, chemical & refineries





NEW



15CAL ARC X-BIB

CODE: DW-ARCBIB12.4



OEKO-TEX®

IEC 61482-1-2, NFPA 2112, NFPA 70E, ASTM F1959,
EN 11611:2015, EN 11612:2015, EN 61482-1-2:2014,
EN ISO 20471:2013

- ATPV 15 cal/cm²
- Dromex A.P.T Fabric - 88% Cotton 12% Nylon, 305gsm
- Flame retardant thread throughout
- Adjustable flame retardant velcro closure
- 50mm Lime/silver/lime flame retardant reflective tape

Sizes: S - XL
2XL - 5XL

Suitable Use:

- Substations & switchrooms
- Utilities & power generators
- Industrial electrical maintenance & installations
- Mining, chemical & refineries



Dromex

ARC



21CAL ARC DENIM JEANS

CODE: DW-ARC21-DJ



OEKO-TEX®

NFPA 2112, NFPA 70E, ASTM F1959, EN 11611:2015,
EN 11612:2015, EN 61482-1-2:2014

- ATPV 21cal/cm²
- 100% Cotton, 14oz Arc Denim
- Flame retardant corespun 40 thread
- YKK concealed brass zip
- Double needle top stitching at inleg & back rise
- Swing pockets with double needle topstitch
- Five belt loops
- Back yoke with double needle topstitching
- Two back pockets with double needle topstitching
- cal/cm² Rating embroidery on right back pocket

Sizes: 28 - 50

Suitable Use:

- Substations & switchrooms
- Utilities & power generators
- Industrial electrical maintenance & installations
- Mining, chemical & refineries





NEW

15CAL ARC DUST COAT

CODE: DW-ARDC



OEKO-TEX®

NFPA 2112, NFPA 70E, ASTM F1959, ASTM F2621-12,
EN 11611:2015, EN 11612:2015, EN 61482-1-2:2014,
EN ISO 204471:2013, SANS 724

- ATPV 15cal/cm²
- Dromex A.P.T Fabric - 88% Cotton, 12% Nylon, 305gsm
- Flame retardant thread throughout
- Concealed flame retardant plastic snap buttons & 25mm x 85mm velcro closure at front
- Flame retardant rib cuff
- 50mm Lime/silver/lime flame retardant reflective tape on arms, chest and "X" on back
- Triple needle topstitched shoulders & armholes
- Slit at centre back hem
- cal/cm² Rating embroidery on right breast

Sizes: S - 5XL

Suitable Use:

- Substations & switchrooms
- Utilities & power generators
- Industrial electrical maintenance & installations
- Mining, chemical & refineries





9.9CAL T-SHIRT UNDERGARMENTS

CODE: DW-ARC9.9-LST (LONG SLEEVE)

DW-ARC9.9-SST (SHORT SLEEVE)



IEC 61482-1-2, NFPA 2112, NFPA 70E, ASTM F1959,
 EN 11611:2015, EN 11612:2015, EN 61482-1-2:2014

- ATPV 9.9 cal/cm²
- 88% Cotton, 12% Nylon Interlock FR Knitted Fabric, 203gsm
- Flame retardant thread throughout
- Flame retardant knitted rib cuffing
- cal/cm² Rating embroidery on left breast
- Suitably worn under any Dromex Arc garment

Sizes: S - 5XL

Suitable Use:

- Substations & switchrooms
- Utilities & power generators
- Industrial electrical maintenance & installations
- Mining, chemical & refineries



9.9CAL BOXER SHORTS

CODE: DW-ARC 9.9-BSH



IEC 61482-1-2, NFPA 2112, NFPA 70E, ASTM F1959, EN 11611:2015, EN 11612:2015, EN 61482-1-2:2014



- ATPV 9.9 cal/cm²
- 88% Cotton, 12% Nylon Interlock FR Knitted Fabric, 203gsm
- Flame retardant thread throughout
- Flame retardant knitted waist band
- cal/cm² Rating embroidery on left leg
- Suitably worn under any Dromex Arc garment

Sizes: S - M
L - XL

Suitable Use:

- Substations & switchrooms
- Utilities & power generators
- Industrial electrical maintenance & installations
- Mining, chemical & refineries

FLAME RETARDANT SOCKS

CODE: DF-9162-CH-L (CHARCOAL)
DF-9162-BLK-L (BLACK)

- Ribbed cuff for secure fit
- Reinforced heel & toe for durability
- Blister resistant
- Convection & radiant heat protection
- Thermally balanced & odour free
- Will not burn when exposed to heat & flame
- Charcoal:
80% Wool, 15% Nylon, 4% Lycra, 1% Elastane
- Aflammit® ZR treated yarn
- Black:
29% Polyamide and 71% Flame retardant polyester

Sizes: Large (8 - 11)

Suitable Use:

- Petroleum service industry
- Petrochemical industry
- Oil & gas industry
- Electrical & gas utility
- Steel mills
- Fighter pilots



CHARCOAL



BLACK



DW-ARC9.9-BAL-S



DW-ARC31-BAL-DBL



ARC BALACLAVA



NFPA 70E & NFPA 2112

- 100% Meta-Aramid
- Single layer: 203gsm fabric
Double layer: 406gsm fabric
- Flame retardant thread throughout
- Lightweight & breathable

Suitable Use:

Fire caused by -

- Chemicals
- Petrochemicals
- Utility/Electrical work

Sizes: One size fits all



55CAL ARC BLANKET

CODE: DW-ARCBLANK



NFPA 70E & NFPA 2112

- Dromex A.P.T Fabric - 88% Cotton, 12% FR Nylon
- Two-layer panel system
> 14 oz Layer 1
> 14 oz Layer 2
- Inherent FR thread throughout
- Heat transfer print & FR APTV 55cal embroidery
- Ten double-layer loops for securing in place
- Centralised cable strap with Velcro/zip strap
- Provides protection against arc blast hazards during electrical work in confined spaces

Suitable Use:

- Substations & switchrooms
- Utilities & power generators
- Industrial electrical maintenance & installations
- Mining

Sizes:

- Small: 1.5m x 2.4m
- XLarge: 2.5m x 4m



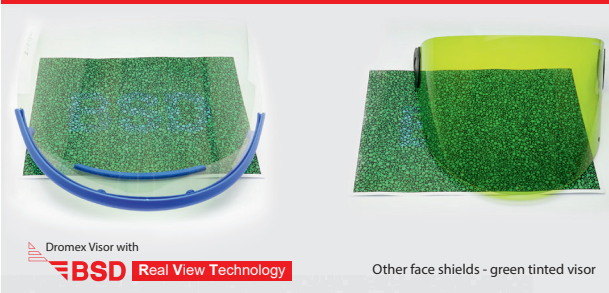
ERGOS2 ARC VISOR

CODE: ARC ERGOS2 12 / 12-EU / 26

- **Increased worker safety because of REAL VIEW of work environment.**
- New generation of face protection against the thermal hazards and impact of an arc flash
- Tested to EN 166 for protection against molten metals & hot solids
- Realistic colour reproduction >95%
- Protection against high-speed particles: medium energy impact (B)
- Extended length visor & transparent chin guard
- Optimised weight balance & no time limit on durability
- Fitted with a universal bracket for use with front brim arc rated hard hats according to EN 50365 or EN 397 standards
- Available in 12 cal/cm² & 26 cal/cm²

AVAILABLE IN EURO HELMET SLOT MOUNTED OPTIONS:
12 cal/cm² & 26 cal/cm²

The lens makes the difference!



ARC HARD HAT

CODE: ARC HHSG 18

- Electric hard hat offering dielectric protection up to 20 000 volts
- 4-point quick fit suspension
- Adjustable Fast-Trac III ratchet
- Fixed stitched sweat band
- Easily integrated with face and hearing PPE
- Suitable for use in electric / utilities & manufacturing industries

ERGOS INTEC ARC HELMET

CODE: ARC ERGOS 28

- ATPV 28 cal/cm²
- Insulated helmet with integrated retractable visor & chin protection
- Provides safety against thermal hazards of an electric arc & projected droplets of molten metal
- Electrical insulation 1000V AC & 1500V DC
- Conforms to EN 166:2001, EN 170:2002, EN 50365:2002, EN 397:2012 + A1:2012, GS-ET-29:2011 & ASTM F2178-17b
- Suitable for use by electricians during work on live equipment and work at heights on electrical connections



70CAL ARC SWITCHING GLOVES

CODE: DG-ARC70



OEKO-TEX®

NFPA 2112, NFPA 70E, ASTM F2675, IEC 61482-1-1, IEC 61482-1-2, EN 11611, EN 11612, EN 61482

- ATPV 70cal/cm²
- Dromex A.P.T Fabric - 88% Cotton, 12% Nylon
- Flame retardant glove lined with meta aramid mat lining
- Inherent FR stitching throughout
- Glove thickness: 2.7mm
- Elasticated shirred glove for comfort

Sizes: S/M & L/XL

Suitable Uses:

- Substations & switchrooms
- Utilities & power generators
- Industrial electrical maintenance & installations

100CAL ARC SWITCHING GLOVES

CODE: DG-ARC100



OEKO-TEX®

NFPA 2112, NFPA 70E, ASTM F2675, IEC 61482-1-1, IEC 61482-1-2, EN 11611, EN 11612, EN61482, SANS 724

- ATPV 100cal/cm² mitt-style glove
- Dromex A.P.T Fabric - 88% Cotton, 12% Nylon
- Triple layer construction: 14oz outer, 700gsm meta aramid mat lining & 14oz inner
- Inherent FR stitching throughout
- Elasticated shirred glove for an ideal fit
- cal/cm² Rating embroidery on cuff

Sizes: S/M & L/XL

Suitable Uses:

- Substations & switchrooms
- Utilities & power generators
- Industrial electrical maintenance & installations





16.8CAL ARC FLASH DIPPED GLOVE

CODE: NE423AF

EN 388



2341C

EN 407



41324X



ASTM

F2675/F2675M-13

D 3776:2013 Option C

- 42.3cal/cm² Arc rated palm & 16.8cal/cm² arc rated back
- Excellent grip in wet, oily & dry environments
- High dexterity
- High resistance to snatch, tear, cut, abrasion & heat
- Basic chemical oil stability
- Seamless knitted aramid fibre glove with a textured Nitrile micro foam & neoprene coated palm
- 13g Aramid flexible knit fabric
- Extended 16cm cuff

Sizes: 7 - 13

Suitable Use:

- Power & Utility companies
- Installation, maintenance & repairs



51CAL LEATHER ARC GLOVE

CODE: CA420

EN 388



3X33D

EN 407



X1XXXX



ASTM

F2675/F2675M-13

- 51cal/cm² Arc rated leather gloves
- High cut level D protection
- High abrasion resistance
- High resistance to snatch, tear, cut & heat
- Multi-layer protection provides flexibility, comfort & excellent insulation
- Leather glove lined with Aramid fibre
- Kevlar stitching
- Shirred extended 16cm cuff
- Cow split leather 1mm

Sizes: 8 - 11

Suitable Use:

- Power & Utility companies
- Installation, maintenance & repairs of high voltage equipment





ARC FLASH TREAD SAFETY BOOT

CODE: DF-FLASH



- Conforms to EN ISO 20345:2011
- Waterproof full grain cow leather upper
- Slip resistant outsole, SRC
(Slip resistance on ceramic tile floor with NaLS & on steel floor with glycerine^{^c})
- Energy absorbing heel
- Removable insock
- Oil resistant
- Contact heat resistant outsole at 300°C for 60 seconds
- Composite toe cap is impact resistant up to 200 ± 4J
- Cleated outsole for additional traction
- Dual velcro closure strap design for ease of use with gloves
- NRCS Approved

Sizes: 3 - 13

Suitable Use:

- Arc Flash & flash fire potential
- Manufacturing (incl. computer equipment)
- Refineries

"We believe that all employees in any work environment are entitled to maximum safety protection and that employers should not have to compromise on the quality of the PPE products they provide for their staff."

Stel Stylianou, CEO

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