CERTIFIED TO ISO 9001 : 2015
CERT NO : AR 5600

CERTIFIED TO ISO 14001 : 2015
CERT NO. : EMS 00766

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ELECTRIC ARC-FLASH PROTECTION

TAB 12C

ELECTRIC ARC-FLASH PROTECTION

Material Specification:

• NFPA 70E - Standard for electrical safety requirements for employee workplaces.

Item Code
DSSB-SSE-ARC-S (M)

ARC SUIT

Washing Guide

• Do not overload washer
• Use high water level
• Wash at temperature necessary to clean the garment. Maximum 165 deg.F, or 74 deg.C
• Use recommended amount of quality detergent (phosphate can be used).
• Do not use chlorine bleach or hydrogen peroxide either separately or in detergents.
• Do not use softeners or starch
• Do not use tallow soap, i.e., one containing animal fats.
• For optimum results when industrial laundering, use an acid sour.
• Softened water provides best results.

Item Code
DSSB-SSE-ARC-H (M)

ARC HOOD

ELECTRICAL ARC PROTECTION

Item Code
DSSB-SSE-EAPS

Type : Style 301
Weight : 7oz/sq yd (237 g/m2)
Fabric blend : 88% Cotton / 12% High Tenacity Nylon
Color : Navy Blue , Royal Blue , Yellow , Green ,
Red , Orange
ATPV Rating : 8.7cal/cm²
PPE Level (HRC) : 2 (Single Layer)

Shirt **Pants**

a) AR + FR Shirt - 8.7cal/cm2

b) AR + FR Class - 8.7cal/cm2

8.7cal/cm2

AR = Arc Resistance
FR = Flame Resistance

ELECTRIC ARC-FLASH PROTECTION

ELECTRICAL ARC PROTECTION

c) AR + FR Labcoat - 8.7cal/cm2

d) AR + FR T-Shirt - 10.9cal/cm2

AR = Arc Resistance
FR = Flame Resistance

ELECTRICAL INSULATED HELMET

Item Code
DSSB-SSE-ETH

Standard Compliance : ANSI Z89.1-2003 Type 1 certified
Helmet Colour : White (Top)
Electrical : Class E
Voltage : 20,000 volts

ARC SHIELD VISOR

Item Code
DSSB-SSE-ASV

Arc Rating (ATPV) : 12 cal/cm²
Color : Light Green
Material : Anti-Fog Molded Polycarbonate
UV Protection : 99.9%
Standard : ANSI Z87.1-2003. ANSI standard requires users to wear safety glasses under face shields

ELECTRICAL ARC PROTECTION SUIT

Item Code
DSSB-SSE-EAPS

Type : Style 301 over
Weight : 14oz/sq yd (474 g/m2)
Fabric blend : 88% Cotton / 12% High Tenacity Nylon
Color : Navy Blue , Royal Blue , Yellow , Green ,
Red , Orange
Fabric : Westex Ultrasoft®
ATPV Rating : 26.8cal/cm²
PPE Level (HRC) : 3 (Double Layer)

ARCH SHIELD VISOR + ELECTICAL INSULATED HELMET WITH HOOD

Item Code
DSSB-SSE-VHH

i)Helmet Colour : White (Top) and Black
(Bottom) Visor Colour : UV Coated
ATPV Rating : 43cal/cm2
ii) Hood Fabric : Westex Ultrasoft by Milliken
ATPV Rating : 26.8cal/cm²
PPE Level (HRC) : 3 (Double Layer)

ELECTRIC ARC-FLASH PROTECTION

SUPERIOR COVERALL ELECTRICAL ARC PROTECTION

Item Code
DSSB-SSE-EAPS8

Ferature & Benefit:

- Tripe stitches with FR thread
- 2 way FR tape brass zipper
- 6 x 2" FR reflective
- FR properties will never wash
- Comfortable to wear
- Excellent after wash appearance

Material: 48% Modacrylic, 37% Lyocell, 15% P-Aramid
Grams: 197gsm, 238gsm
Comply: NFPA 2112, NFPA 70E HRC 2,
EN ISO 11612:2008, EN ISO 11611:2007
Size: S - 6XL

	S	M	L	XL	2XL	3XL	4XL	5XL	6XL
Collar	41	41	42	43	43	45	45	48	48
Shoulder	48	50	52	54	56	58	60	64	66
Chest	112	118	124	130	136	142	148	158	164
Waist	96	100	104	108	112	116	120	126	132
Back Length	43	47	51	55	59	61	63	64	65
Hip	108	114	120	126	132	138	144	150	156
Thigh	58	61	63	66	68	70	73	76	77
Pant Length	98	100	103	106	109	111	113	117	117
Sleeve Length	53	54	55.5	57	58.5	60	62	64	65
Cuff	26	26	27	27	28	28	28	30	32
Leg Opening	41	43	46	49	51	53	55	56	56

Colour Available:

Certificate :-

CERTIFICATE OF COMPLIANCE

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SUPERIOR COVERALL ELECTRICAL ARC PROTECTION

PHYSICAL PROPERTIES		TECASAFE PLUS 580	TECASAFE PLUS 580-A	TECASAFE PLUS 700	TECASAFE PLUS 700-A	TECASAFE PLUS 850-A	NFPA 70E Requirement		NFPA 2112 Requirement
							HRC1	HRC2	
FABRIC WEIGHT (±5%)	g/m²	197	197	238	238	288			
	oz/yd²	5.8	5.8	7.0	7.0	8.5			
FIBER BLEND		*fr-modarcrylic, lyocell, aramid*							
ARC THERMAL PERFORMANCE VALUE (cal/cm²) (ATPV) *ASTM F 1959*		6.5	5.7	9.0	10.1	10.2	5.0 min.	8.0 min.	
FLAME RESISTANCE *ASTM D 6413*									
Char Length (inches [warp x fill])		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	6.0 max	6.0 max	4.0 max
After Flame (seconds [warp x fill])		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0			2.0 max
THERMAL PROTECTIVE PROTECTION (cal/cm²)									
	With Spacer	9.6	9.8	12.3	10.0	10.0			6.0 min
	Without Spacer	6.6	6.5	10.9	7.5	8.0			3.0 min
FLASH FIRE EXPOSURE (Manikin Test) *ASTM F 1930* (% body burn [2 cal/cm²/sec] @ 3 sec		23	32	15	23.5	19			50.0 max
TENSILE STRENGTH (lbs [warp x fill]) *ASTM D 5034*		114 x 85	105 x 80	135 x 85	135 x 85	145 x 90			
ELMENDORF TEAR STRENGTH (lbs [warp x fill]) *ASTDM D 1424*		11 x 10	11 x 10	10 x 8	12 x 10	12 x 10			
DIMENSIONAL STABILITY (%[5x]) 120°F *AATCC 135*		≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0			
WICKING 1" strip, tap water (seconds)	0.5 inches	3.5	3.5	3.5	3.5	3.5			
	1.0 inches	13.0	11.5	13.0	13.0	11.0			
	1.5 inches	29.0	28.0	29.0	29.0	29.0			
	2.0 inches	61.0	53.0	61.0	61.0	51.0			
PILLING RESISTANCE(%) 30 - 120 minute *ASTM D 3512*		*5	*5	*5	*4-5	*4-5			
THERMAL SHRINKAGE RESISTANCE (%[500°F, 5 minutes])		≤ 3.0	3.0	≤ 3.0	< 4.0	< 3.0			10.0 max

*Ratings: *5-Best, *3-Acceptable, *1-Poor*

ELECTRIC ARC-FLASH PROTECTION

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RUBBER INSULATING GLOVES

Description	Item Code	Size (EU)
CLASS 00 2,500 Volt Tested 500 Volt Working	DSSB-SA-GLOVE-C00	8,9,10,11
CLASS 0 5,000 Volt Tested 1,000 Volt Working	DSSB-SA-GLOVE-C0	8,9,10,11
CLASS 1 10,000 Volt Tested 7,500 Volt Working	DSSB-SA-GLOVE-C01	8,9,10,11
CLASS 2 20,000 Volt Tested 17,000 Volt Working	DSSB-SA-GLOVE-C02	8,9,10,11
CLASS 3 30,000 Volt Tested 26,500 Volt Working	DSSB-SA-GLOVE-C03	8,9,10,11
CLASS 4 40,000 Volt Tested 36,000 Volt Working	DSSB-SA-GLOVE-C04	8,9,10,11

Complies to : EN 60903
ASTM D120

Please go to the next page for Glove size measurement info.

RUBBER INSULATING GLOVES

Glove sizes - measuring your hand

Length

Measure from the bottom edge of palm to the tip of your middle finger to determine your 'finger length' size.

EU Sizes		US Sizes	
160mm	EU - 6	6 5/16 inches	XS
171mm	EU - 7	6 3/4 inches	S
182mm	EU - 8	7 3/16 inches	M
192mm	EU - 9	7 9/16 inches	L
204mm	EU - 10	8 1/16 inches	XL
215 + mm	EU - 11	8 7/16 + inches	XXL

Width

Wrap a measuring tape around your dominant hand just below knuckles, excluding your thumb, and make a fist. This measurement is your 'hand width' glove size.

EU Sizes		US Sizes	
152 - 178 mm	EU - 6	6 - 7 inches	XS
178 - 203 mm	EU - 7	7 - 8 inches	S
203 - 229 mm	EU - 8	8 - 9 inches	M
229 - 254 mm	EU - 9	9 - 10 inches	L
254 - 279 mm	EU - 10	10 - 11 inches	XL
279 + mm	EU - 11	11 + inches	XXL

LEATHER WORK GLOVES/ OVERGLOVES

Description	Item Code	Length (mm)	Sizes
CLASS 00 2,500 Volt Tested 500 Volt Working	DSSB-SSE-LWG-C00	360	8, 9, 10, 11
CLASS 0 5,000 Volt Tested 1,000 Volt Working	DSSB-SSE-LWG-C0	360	8, 9, 10, 11
CLASS 1 10,000 Volt Tested 7,500 Volt Working	DSSB-SSE-LWGC1	360	8, 9, 10, 11
CLASS 2 20,000 Volt Tested 17,000 Volt Working	DSSB-SSE-LWGC2	360	8, 9, 10, 11

LEATHER WORK GLOVES/ OVERGLOVES

Item Code
DSSB-SSE-LWG-MAX-02
DSSB-SSE-LWG-MAX-03
DSSB-SSE-LWG-MAX-04

MAX-03 & MAX 04

Leather Work Glove (MAX-02)
made of cow hide suitable to be used as protective equipment while working in heavy duty work environment.

KERMEL FABRICS, FLAME & SPARK PROTECTION

• MAX-03, COMFORGUARD (C170g), protection against amount of energy in calories
• MAX-04, COMFORGUARD (C205g), protection against amount of energy in calories

BASIC PROTECTION

• Design to protect over rough condition and harsh environment that requires protection to palm.
• Gripping made easy by having smaller finger size suitable for holding working tools.

SHORT ARM, 12" LENGTH (UP TO WRIST)
LONG ARM, 15" LENGTH (UP TO ARM)

Leather Glove meets
BS EN 388: 2003 (Abration/ Tear/ Punctures Resistance) ; ISO 4045-1977 (Determination of pH Value) ;
BS EN 420 (Water Vapor Absorption) ; BS 5852 (Ignitability)

KEVLAR PVC DOT GLOVES (CUT-RESISTANCE)

Item Code
DSSB-SSE-KPDG

- With a PVC dot palm, our Kevlar PVC dot gloves boost both excellent grip and fantastic cut resistance-perfect if you're constantly handling sharp glass, knives or metal whilst at work.
- Kevlar fibre 2 ply with PVC dot for grip.
- Cut and heat resistant.
- Ribbed knit wrist.
- Size: M, L, XL,
- Description: 7 gauge and 10 gaige PVC dot.
- Applications: Slicing / cutting operations, cable glanding cable jointing, plastic cutting, engineering, manufacturing and glass handling.

Delta Sama Jaya Sdn. Bhd. (DSSB) Tel: +603 - 92824007, 92813778 Fax: +603 - 92870705

CLASS 0 DIELECTRIC SAFETY BOOT

Item Code
DSSB-SSE-DSB0

Class 0 Dielectric Safety Boot

Colour	Orange / Green
Size Ranger	Euro : 39-48 / UK 5½~14
Type of Construction	Vulcanized Rubber Upper and Sole
Last / Sole Patter	VSV / SNV
Test / Application	5000 Volts Tested, 1000 Volts working
Recommendation	• For working environment with low voltage hazards
	• Power station operations
	• Substation (step - up / step down / distribution) operations
	• Electrical hazards with wet condition / water exposure
	• Current leakage hazards
	• Electrical installations
Upper Construction	• Reinforced rubber upper
	• High visibility with orange and green contrast
	• Waterproof
Sole / Heel	• Electrical shock resistance sole
	• Oil resistance sole
	• Slip resistance vulcanized rubber sole
	• Excellent abrasion resistant for extra durability
	• Heel energy absorption design to minimize heel impact
Steel Toe Cap	• Non-corrosive coating material
	• Meets EN ISO 20345 impact and compression tests
Steel Tank	Doubled ribbed ladder shank to strengthen heel part
Chemical Resistance	Sole & Upper - Resistant towards mild acids and alkaline
Lining Material	Selected polyester grade for electrical insulation
Finishing	Hypalon lacquen coating for weather protection

Specially handbuilt and tested individually to EN 20345 and EN 50321 Standards for working on low voltage installations. Offering a high level of protection, the boots easily lock foot placement when climbing ladder or poles.

PRODUCT FEATURES :

- EN ISO 20345 : 2004
- Steel Toe Cap Protection
- 5000 Volts tested, 1000 Volts working
- Electric Shock Resistant Outsole up to 18kV
- Ozone & UV Resistant Upper
- Heel Energy Absorbing Sole Construction
- PE Lining for Extra Durability

Class 0 CE 0321 EN ISO 20345 : 2004 SB I E HRO SRA EN 50321 : 1999

SAFETY BOOTS

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FLAME RESISTANT ARC SUIT

TROPICAL USAGE FLAME RESISTANT ARC SUIT JACKET AND BIB COVERALL

Level 4~ (11kV & 33kV) ARC Flash Protection Kit Set

Outer Layer	: Style 851 Sateen
Inner Layer 1	: Style 851 Sateen
Weight	: 18.0 oz/sq yd (610g/m2)
Fabric Blend	: 87% Cotton, 12% High Tenacity Nylon and 1% Antistatic
Colour	: Navy Blue / Grey / Orange / Royal Blue
Fabric	: Westex Ultrasoft by Milliken
ATPV Rating	: 45.0 cal/cm2
HRC's Level	: 4 (Double Layer)

ARC FLASH GLOVE

Fabric	: Westex Ultrasoft by Milliken
Fabric Blend	: 87% Cotton, 12% High Tenacity Nylon and 1% Antistatic
ATPV Rating	: 45.0 cal/cm2
HRC's Level	: 4 (Double Layer)

ARCH SHIELD + HELMET WITH HOOD

i)

Helmet Colour	: White (Top) and Black (Bottom)
Visor Colour	: UV Coated
ATPV Rating	: 43 cal/cm2

ii)

Fabric	: Wextex Ultrasoft by Milliken
ATPV Rating	: 45.0 cal/cm2
HRC's Level	: 4 (Double Layer)

FLAME RESISTANT BALACLAVA

Style : Style 131
Type : Rib Knit
Weight : 6.5 oz/sq yd
Fabric Blend : 87% Cotton, 12% High Tenacity Nylon and 1% Antistatic
Colour : Navy Blue
Fabric : Westex Ultrasoft by Milliken
ATPV Rating : 12.1 cal/cm2
HRC's Level : 2 (Single Layer)

HARVIK ELECTRICAL SHOCK RESISTANT SHOE

Art no. : 8851 (Black)
HARVIK 18kV ESR Low Cut Safety Shoe c/w Steel Toe Cap.
** Withstand 18kV of life current at dry condition
** Feul oil resistant sole suitable for inimical environment
** Slip resistant vulcanized rubber outsole
** Excellent abrasion resistant for extra durability
**Waterproof / Reinforced rubber /

EURO SIZE	38	40	41	42	43
UK SIZE	5	6 1/2	7 1/2	8	9

FLAME RESISTANT ARC SUIT

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