



## **FEATURES**

- 100% Cotton Fire Retardant Garment.
- Garment tested for heat & flame, welding, limited flame spread and electrostatic, special finish for increased wearer comfort.
- Safety and protection with durability, two front chest pocket, one oen pocket.
- Two swing pockets on leg and two back pockets on hip.
- Velcro to adjust the sleeves and two way high quality metal zipper with flap.
- High quality / dual colour FR reflective tapes on arm, leg and waist for high visibility.

## **APPLICATION**

- Protective clothing for use in welding and allied processes.
- To protect against heat and flame.
- Protection against electrostatic properties.
- Protective clothing against limited flame spread.

## **COLOUR, SIZE & ERP CODES**


ERP Code <b>E3-10-05-04</b>
Size Available <b>S to 4XL</b>
Colour <b>NAVY BLUE</b>


ERP Code <b>E3-10-05-05</b>
Size Available <b>S to 4XL</b>
Colour <b>KHAKI</b>


ERP Code <b>E3-10-05-06</b>
Size Available <b>S to 4XL</b>
Colour <b>ORANGE</b>


ERP Code <b>E3-10-05-12</b>
Size Available <b>S to 4XL</b>
Colour <b>RED</b>

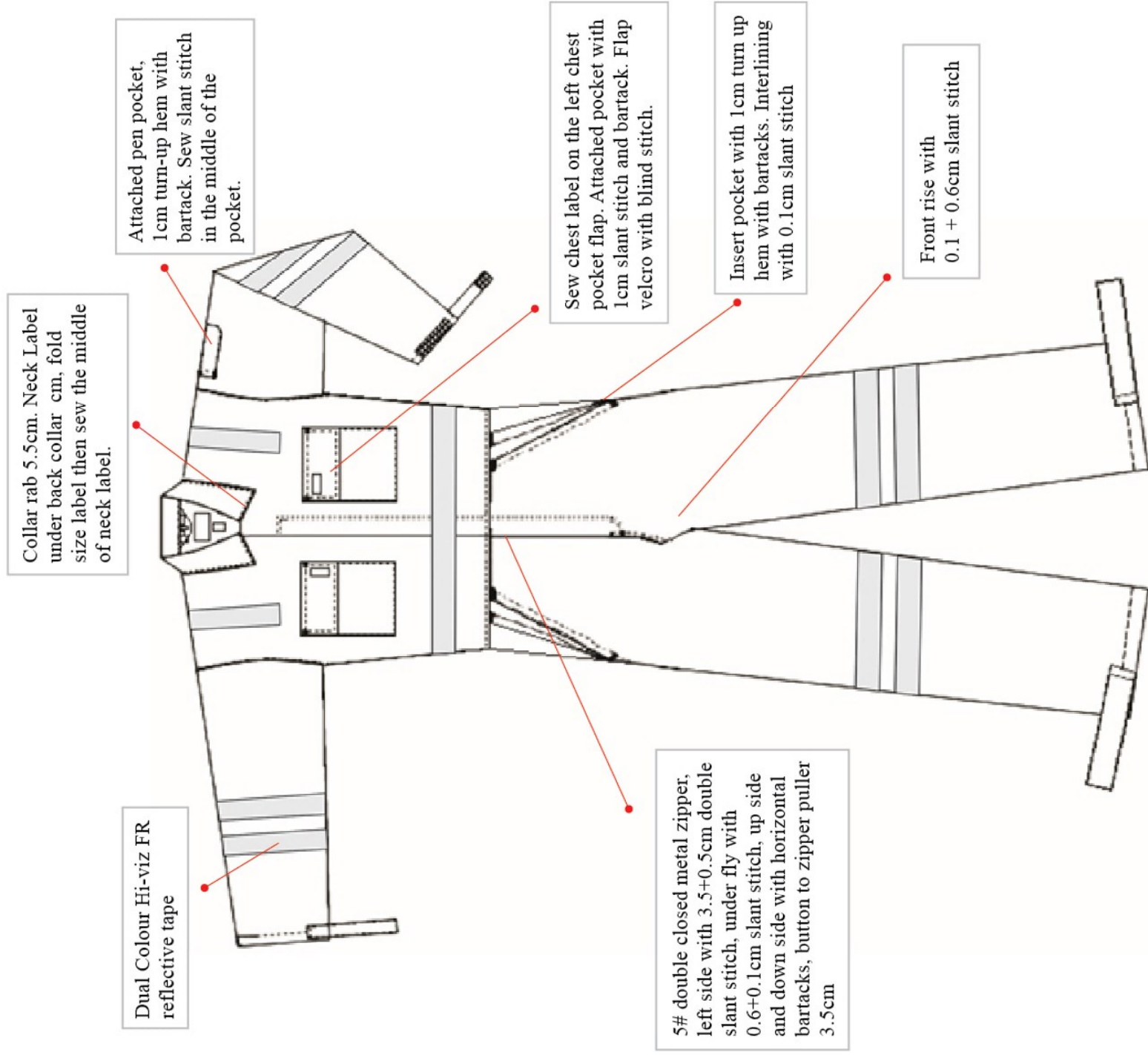

ERP Code <b>E3-10-05-21</b>
Size Available <b>S to 4XL</b>
Colour <b>ROYAL BLUE</b>



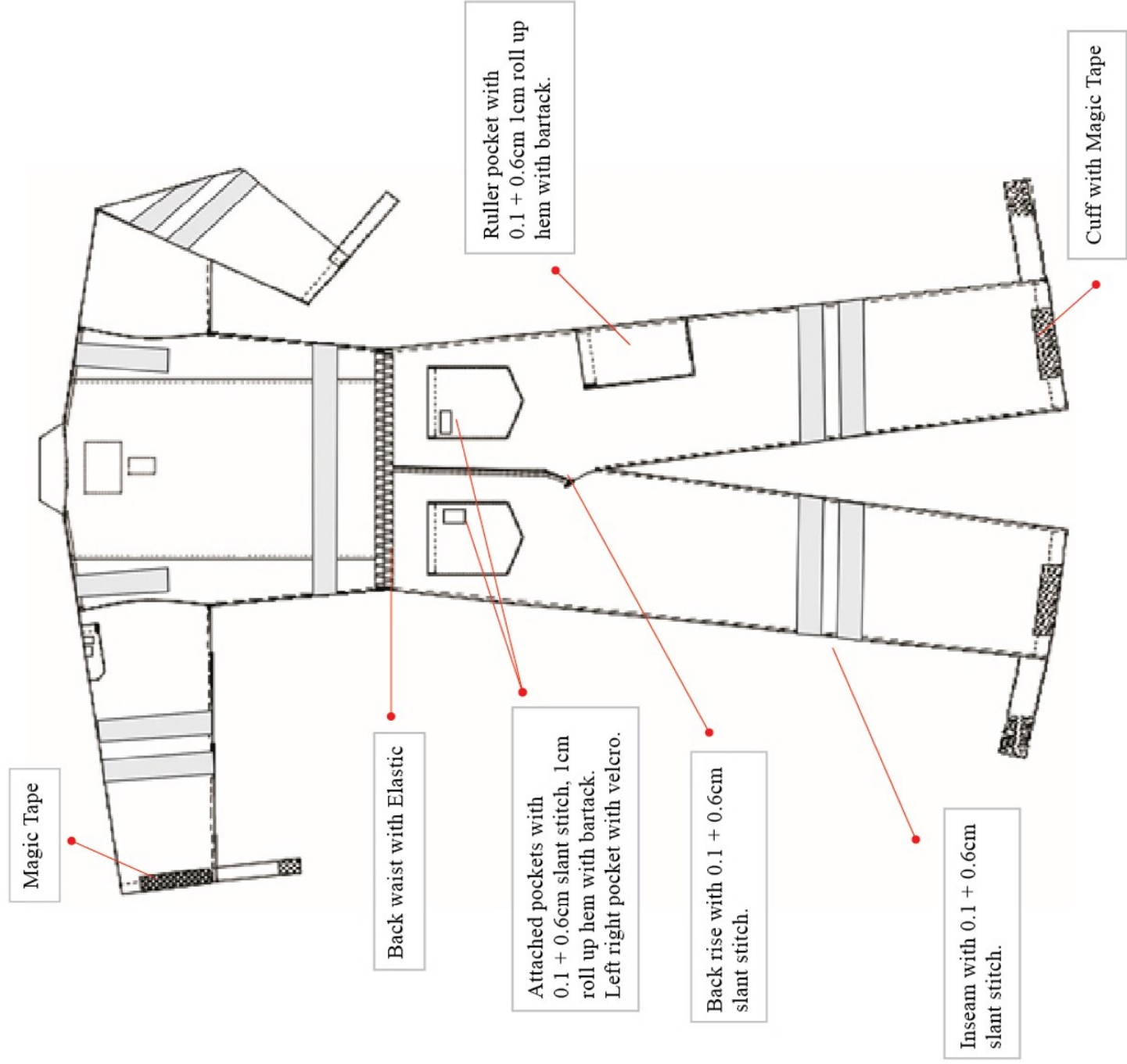
## **STANDARDS**

**EN11612, EN11611, EN14116, EN1149.**

**SKETCH DIAGRAM FRONT**



**SKETCH DIAGRAM BACK**



**SIZE CHART**

PART SIZE	S	M	L	XL	2XL	3XL	4XL
CHEST	114	119	124	132	139	149	159
COLLAR	43	44	46	47	48	50	52
SHOULDER	48	49	50	51.5	55.5	56.6	59
CENTRAL BACK TO RISE	90.2	91.5	92.7	94	97.2	99	101.5
CENTRAL BACK TO WAIST	49	50	51.5	53	55.5	56.5	59.5
ARMHOLE	28.5	30	31	32.5	34	35.5	37
SLEEVE LENGTH	53.5	56	58.5	61	63.5	68.5	73.5
SLEEVE OPENING	30	33	36	38	40	42	43
WAIST RELAX	83	88	93	98	108.5	115.5	129
WAIST STRETCH	104	109	114	119	129.5	139.5	150
HIP	111	116	121	129	137	147	157
INSEAM	72	74	74	77	77	77	77
THIGH	49	49	49	49	49	49	49
COLLAR HEIGHT	8	8	8	8	8	8	8
COLLAR POINT	8	8	8	8	8	8	8

**PACKAGING**

UNIT	STANDARD	PACKING PER PKT	PACKING PER CTN	ORIGIN	NET WEIGHT / CARTON (KG.)	GROSS WEIGHT / CARTON (KG.)	CARTON DIMENSION (CMS.)	CBM PER CTN
Piece	EN ISO 11611 EN ISO 11612 EN ISO 14116 EN ISO 1149	1 Piece	20 Pieces	CHINA	_____	S - 24.15 M - 25.14 L - 26 XL - 27.23 2XL - 28.7 3XL - 4XL -	_____	_____



Report NO:POCE16081505PRS      Date: Aug 22, 2016

TEST REPORT	
Report Reference No.....:	POCE16081505PRS
Prepared By.....:	Shenzhen POCE Technology Co., Ltd
.....:	H Building, HongFa Science and Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, China
Date of issue.....:	Aug 22, 2016
Date of test.....:	Aug 15, 2016
Total number of pages.....:	3 Pages
Prepared by(Engineer)	<i>Calvin</i>
Reviewer(Quality Manager)	<i>Michael</i>
Applicant.....:	SAMS GENERAL TRADING LLC
Address.....:	Shop No. 29, Malik Abdul Kareem Abul Hassan Zarooni, Naif, Dubai P.O.Box 183189, U.A.E.
Standards.....:	Testing to EN ISO 11611: 2015 (a) Clause 6.2 Tensile strength (b) Clause 6.3 Tear strength (c) Clause 6.6 Dimensional change (d) Clause 6.7 Flame spread – Face ignition (code letter A1) (e) Clause 6.7 Flame spread – Edge ignition (code letter A2) (f) Clause 6.8 Impact of spatter (g) Clause 6.9 Heat transfer (radiation) (h) Clause 6.10 Electrical resistance (l) Clause 6.11 fat content of leather
Cleansing pretreatment.....:	Prior to all tests five wash/dry cycles according to ISO 6330: 2012 Procedure 60°C with tumble drying (max. 70°C outlet temperature).
Description of sample(s).....:	100% cotton woven fabric
Job title.....:	Testing of one woven fabric
Product Name.....:	SAFEGUARD
Trade Mark.....:	EMPIRAL
Model/Type reference.....:	E3100504, E3100506, E3100521, E3100512, E3100505
Summary of results.....:	See page 2



Summary of Results:

PROPERTY TEST	METHOD	EN ISO 11611 REQUIREMENTS	RESULTS	OBTAINED PASS/FAIL
6.2 Tensile strength	ISO 13934-1:1999	Class 1: ≥400N Class 2: ≥400N	Warp:1056N Weft: 712N	PASS Class 1 and 2
6.3 Tear strength	ISO 13937-2:2000	Class 1: ≥20N Class 2: ≥20N	Warp:22.5N Weft: 27.4N	PASS Class 1 and 2
6.6 Dimensional change	ISO 5077:2007	Class 1: ±3% Class 2: ±3%	Warp: -1.7% Weft: -0.5%	PASS Class 1 and 2
6.7 Limited flame spread (code latter A1)	ISO 15025:2002 Procedure A	No flaming to edge No hole formation No flaming or molten debris Mean afterflames ≤ 2 s Mean afterglow ≤ 2s	No flaming to edge No hole formation No flaming or molten debris No afterflame No afterglow	PASS Class 1 and 2
6.7 Limited flame spread (code latter A2)	ISO 15025:2002 Procedure B	No flaming to edge No hole formation No flaming or molten debris Mean afterflames ≤ 2 s Mean afterglow ≤ 2s	No flaming to edge No flaming or molten debris No afterflame No afterglow	PASS Class 1 and 2
6.8 Impact of spatter	ISO 9150:1988	No ignition Class 1: ≥15 drops Class 2: ≥25 drops	No ignition 27 drops	PASS Class 1 and 2
6.9 heat transfer (radiation)	ISO 6942:2002 Method B at 20KW/M2	Class 1: RHTI24 ≥7s Class 2: RHTI24 ≥16s	RHTI24 =13.8s	PASS Class 1
6.10 Electrical resistance	EN 1149-2:1997 at (85±5)%RH	Class 1: >105 Ω Class 2: >105 Ω	2.5x106 Ω	PASS Class 1 and 2
6.11 Fat content of leather	ISO 4048:2008	Class 1: ≤15% Class 2: ≤15%	100% cotton	N/A



Report NO:POCE16081505PRS      Date: Aug 22. 2016

**Photo appendix:**



The photo on original report only

\*\*\*\*\*END OF REPORT\*\*\*\*\*

**Shenzhen POCE Technology Co., Ltd.**

H Building, HongFa Science and Technology Park,  
Tangtou, Shiyan, Bao'an District, Shenzhen, China

**CERTIFICATE OF CONFORMITY**

**Certificate No.** : POCE16081503XCS  
**Applicant** : SAMS GENERAL TRADING LLC  
**Address** : Shop No. 29, Malik Abdul Kareem Abul Hassan Zarooni, Naif, Dubai  
: P.O.Box 183189, U.A.E.  
**Product** : SAFEGUARD  
**Trade Name** : EMPIRAL  
**Model(s)** : E3100504, E3100506, E3100521, E3100512, E3100505  
**Test Report No.** : POCE16081503XRS  
**Test Standards** : EN ISO 14116:2015

The EUT described above has been tested by us with the listed standards and found in compliance with the council **EU Directive 89/686/EEC**. It is possible to use **CE** marking to demonstrate the compliance with this EU Directive.

**CE**.....  
For Chief Executive / Jerry Yang

Date: Aug 23, 2016

This certificate of conformity is based on a single evaluation of the submitted sample(s) of the above mentioned product. It does not imply an assessment of the whole production and other relevant directives have to be observed.

Web: <http://www.poce-cert.com>

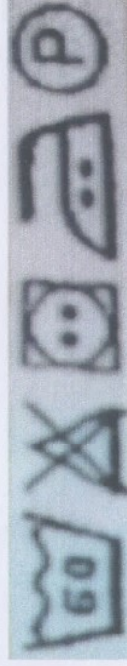
Tel: +86-755-29113252

E-mail: [service@poce-cert.com](mailto:service@poce-cert.com)





Report NO: POCE16081503XRS      Date: Aug 22, 2016

TEST REPORT	
Report Reference No.....:	POCE16081503XRS
Prepared By.....:	ShenZhen POCE Technology Co., Ltd
.....:	H Building, HongFa Science and Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, China
Date of issue.....:	Aug 22, 2016
Date of test.....:	Aug 15, 2016
Total number of pages.....:	3pages
Prepared by(Engineer).....:	<i>Calvin Chan</i>
Reviewer(Quality Manager).....:	<i>Michael Ng</i>
Applicant.....:	SAMS GENERAL TRADING LLC
Address.....:	Shop No. 29, Malik Abdul Kareem Abul Hassan Zarooni, Naif, Dubai P.O.Box 183189, U.A.E.
Standards.....:	EN ISO 14116: 2015
.....:	Clause 6.1 Limited flame spread performance
.....:	Clause 6.2.1 Tensile strength
.....:	Clause 6.2.2 Tear strength
.....:	Clause 6.3 Dimensional change
Description of sample(s) .....	100% cotton woven fabric
Product Name.....:	SAFEGUARD
Preposed care insulation.....:	
Trade Mark.....:	EMPIRAL
Model/T type reference.....:	E3100504, E3100506, E3100521, E3100512, E3100505
Summary of results.....:	See page 2





Report NO:POCE16081503XRS

Date: Aug 22, 2016

**Summary of Results:**

Protective clothing - Protection against flame - Limited flame spread materials, material assemblies and clothing thermal performance ( EN ISO 14116: 2015 clause 6.1,6.2.1,6.2.2,6.3)

PROPERTY TEST	METHOD	EN ISO 11611 REQUIREMENTS	RESULTS	OBTAINED PASS/FAIL
6.2.1 Tensile strengt h	ISO 13934-1:1999	Class 1: ≥150N Class 2: ≥150N	Warp: 1056N Weft: 712N	PASS Class 1 and 2
6.2.2 Tear strength	ISO 13937-2:2000	Class 1: ≥7.5N Class 2: ≥7.5N	Warp: 22.5N Weft: 27.4N	PASS Class 1 and 2
6.3 Dimensional change	ISO 5077:2007	Dimensional changes ±3%	Warp: -1.7% Weft: -0.5%	PASS

Clause 6.1 :  
As received

	Lengthwise			Widthwise		
	1	2	3	1	2	3
Specimen	N	N	N	N	N	N
The lowest boundary of any flame reach the upper or vertical edge	N	N	N	N	N	N
Flaming debris	N	N	N	N	N	N
Afterflame spread from the carbonized area to the undamaged area after the cessation of flaming	N	N	N	N	N	N
Hole formation	N	N	N	N	N	N
Afterflame(second)	N	N	N	N	N	N

Remarks: Y: YES N: NO N/A: Not applicable;

Flame application time: 10seconds

Classification:

- Requirements for limited flame spread index 1  
No specimen shall permit any part of the lowest boundary of any flame or the boundary of any hole to reach the upper or either vertical edge.  
No specimen shall give flaming or molten debris.  
After glow time shall be ≤2s
- Requirements for limited flame spread index 2  
No specimen shall permit any part of the lowest boundary of any flame or the boundary of any hole to reach the upper or either vertical edge.  
No specimen shall give flaming or molten debris.  
After glow time shall be ≤2s

NO specimen shall give hole formation of 5mm or greater in any direction, except for an interfering that is used for specific protection other than flame protection



Report NO.:POCE16081503XRS

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3. Requirements for limited flame spread index 3

No specimen shall permit any part of the lowest boundary of any flame or the boundary of any hole to reach the upper or either vertical edge.

No specimen shall give flaming or molten debris.

NO specimen shall give hole formation of 5mm or greater in any direction, except for an interlining that is used for specific protection other than flame protection

Afterglow time shall be  $\leq 2s$

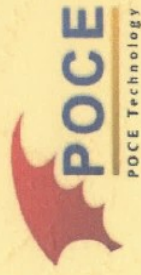
Afterflame time shall be  $\leq 2s$

**Photo appendix:**



The photo on original report only

\*\*\*\*\*END OF REPORT\*\*\*\*\*

**Shenzhen POCE Technology Co., Ltd.**

H Building, HongFa Science and Technology Park,  
Tangfou, Shiyuan, Bao'an District, Shenzhen, China

**CERTIFICATE OF CONFORMITY**

**Certificate No.** : POCE16081504ZCS  
**Applicant** : SAMS GENERAL TRADING LLC  
**Address** : Shop No. 29, Malik Abdul Kareem Abul Hassan Zarooni, Naif, Dubai  
: P.O.Box 183189, U.A.E.  
**Product** : SAFEGUARD  
**Trade Name** : EMPIRAL  
**Model(s)** : E3100504, E3100506, E3100521, E3100512, E3100505  
**Test Report No.** : POCE16081504ZRS  
**Test Standards** : EN ISO 11612:2015

The EUT described above has been tested by us with the listed standards and found in compliance with the council **EU Directive 89/686/EEC**. It is possible to use **CE** marking to demonstrate the compliance with this EU Directive.

**CE**.....  
For Chief Executive / Jerry Yang

Date: Aug 23, 2016

This certificate of conformity is based on a single evaluation of the submitted sample(s) of the above mentioned product. It does not imply an assessment of the whole production and other relevant directives have to be observed.

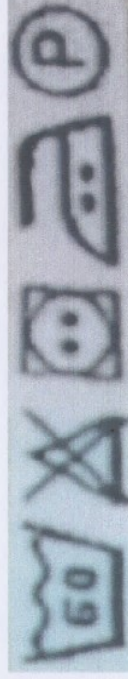
Web: <http://www.poce-cert.com>

Tel: +86-755-29113252

E-mail: [service@poce-cert.com](mailto:service@poce-cert.com)



Report NO:POCE16081504ZRS Date: Aug 22, 2016

TEST REPORT	
Report Reference No.....	POCE16081504ZRS
Prepared By.....	ShenZhen POCE Technology Co., Ltd
.....	H Building, HongFa Science and Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, China
Date of issue.....	Aug 22, 2016
Date of test.....	Aug 15, 2016- Aug 22, 2016
Total number of pages.....	3 pages
Prepared by(Engineer).....	<i>Calvin</i>
Reviewer(Quality Manager).....	<i>Michael</i>
Applicant.....	SAMS GENERAL TRADING LLC
Address.....	Shop No. 29, Malik Abdul Kareem Abul Hassan Zarooni, Naif, Dubai P.O.Box 183189, U.A.E.
Standards.....	EN ISO 11612: 2015
.....	Clause 6.2.1 Heat resistance at a temperature of (180±5)°C
.....	Clause 6.3 Limited flame spread
.....	Clause 6.4 Dimensional change of textile materials
.....	Clause 6.5.1 Tensile strength
.....	Clause 6.5.2 Tear strength
.....	Clause 7.3 Radiant heat(code letter C)
Description of sample(s).....	100% cotton woven fabric
Job title.....	Testing of one woven fabric
Product Name.....	SAFEGUARD
Preposed care insulation.....	
Trade Mark.....	EMPIRAL
Model/Type reference.....	E3100504, E3100506, E3100521, E3100512, E3100505
Summary of results.....	See page 2



Report NO:POCE16081504ZRS      Date: Aug 22, 2016

**Summary of Results:**

Protective clothing - clothing to protect against heat and flame (EN ISO 11612: 2015 )

PROPERTY TEST	METHOD	EN ISO 11611 REQUIREMENTS	RESULTS	OBTAINED PASS/FAIL
6.2.1 heat resistance at a temperature of (180±5)°C	ISO 17493-2000	Shall not ignite or melt Fabric shrink by more than 5%	No ignition or melt Warp:0.1% Wet: 0.2%	PASS
6.3.1 Limited flame spread(code latter A1)	ISO 15025:2002 Procedure A	No flaming to edge No hole formation No flaming or molten debris Mean afterflames≤2 s Mean afterglow ≤2s	No flaming to edge No hole formation No flaming or molten debris No afterflame No afterglow	PASS A1
6.3.2 Limited flame spread(code latter A2)	ISO 15025:2002 Procedure B	No flaming to edge No hole formation No flaming or molten debris Mean afterflames≤2 s Mean afterglow ≤2s	No flaming to edge No flaming or molten debris No afterflame No afterglow	PASS A2
6.4 Dimensional change	ISO 5077:2007	Dimensional change±3%	Warp: -1.7% Wet: -0.5%	PASS
6.5.1 Tensile strength	ISO 13934-1:1999	≥300N	Warp:1056N Wet: 712N	PASS
6.5.2 Tear strength	ISO 13937-2:2000	≥15N	Warp:22.5N Wet: 27.4N	PASS
7.3 Radiant heat (code letter C)	ISO 6942-2002 Method B at 20KW/m <sup>2</sup>	Levels C1 ≥7s C2 ≥20s C3 ≥50s C4 ≥95s	Sequence RHTI*24 1 13.8s 2 13.9s 3 13.8s	Level C1

Remarks: Y: YES      N: NO      N/A: Not applicable;

Flame application time: 10seconds



Report NO:POCE16081504ZRS      Date: Aug 22, 2016

**Photo appendix:**



The photo on original report only

\*\*\*\*\*END OF REPORT\*\*\*\*\*