

XINXIANG WEIS TEXTILES & GARMENTS CO., LTD.
ASIAINFO BLDG 1302, DAOQING ROAD, XINXIANG, HENAN, CHINA

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : Woven fabric (100% cotton FR HI-VIZ fabric)
Style No. : WSHV
Composition : 100% cotton
Color : HI-VIZ YELLOW
End Use : WORKWEAR

Proposed Care Instruction : -

Test Performed : Selected test(s) as requested by applicant

Sample Receiving Date : Mar 14, 2019

Testing Period : Mar 19, 2019 - Mar 23, 2019

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. For further details, please refer to the following page(s).

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co. Ltd



Hattie Chen
Account Executive

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Test Result

High-visibility clothing – Test methods and requirements

(EN ISO 20471: 2013+A1: 2016)

Sections 5.1.1 and 7.2: Colour Performance Requirements of New Background Materials

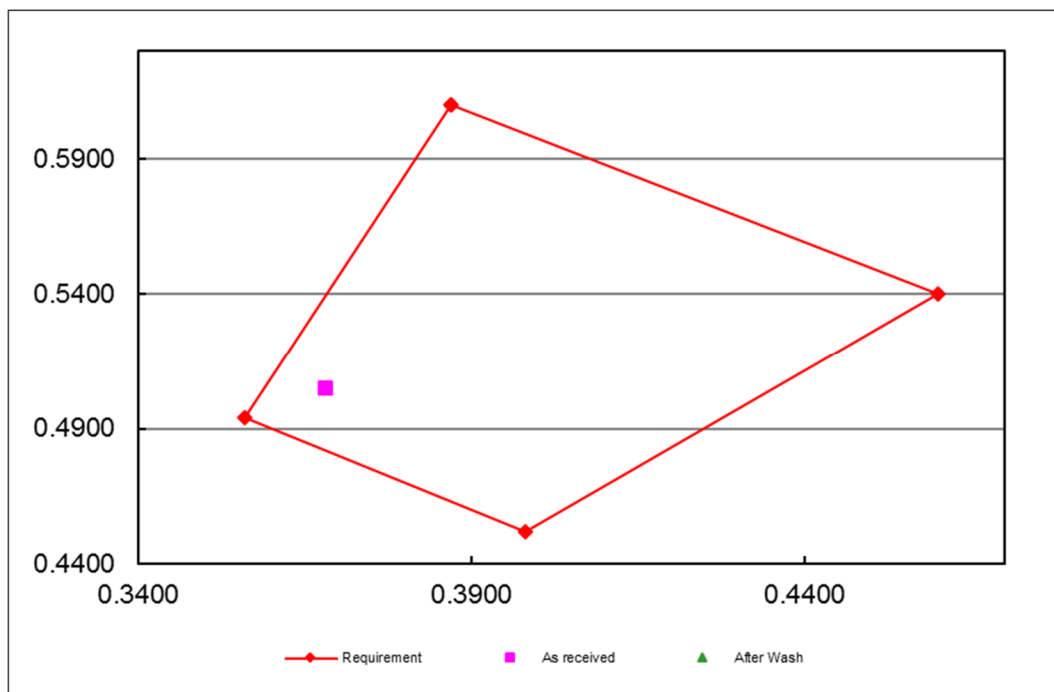
		Measured Values of Sample	Result
Chromaticity coordinates	x value	0.368	Pass
	y value	0.505	
Luminance Factor, β		0.95	Pass

The chromaticity shall be within one of the areas defined by coordinates in EN ISO 20471: 2013 Table 2 and the luminance factor shall comply with the corresponding minimum value.

Colour requirements for background material

Colour	Chromaticity coordinates		Minimum luminance factor β_{min}
	x	y	
Fluorescent yellow	0.387	0.610	0.70
	0.356	0.494	
	0.398	0.452	
	0.460	0.540	

Graphs:



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Protective clothing- Clothing to protect against heat and flame- Minimum performance requirements
(EN ISO 11612:2015, Clause 6.3/ ISO 15025:2016, Procedure A)

1. As received

Fabric

Specimen	Lengthwise			Widthwise		
	1	2	3	1	2	3
Afterflame time (s)	NIL	NIL	NIL	NIL	NIL	NIL
Afterglow time (s)	NIL	NIL	NIL	NIL	NIL	NIL
Any flame to reach the upper or either vertical edge	N	N	N	N	N	N
Flaming or molten debris	N	N	N	N	N	N
Hole formation(≥5mm)	N	N	N	N	N	N

2. After 5 cleaning cycles

Fabric

Specimen	Lengthwise			Widthwise		
	1	2	3	1	2	3
Afterflame time (s)	NIL	NIL	NIL	NIL	NIL	NIL
Afterglow time (s)	NIL	NIL	NIL	NIL	NIL	NIL
Any flame to reach the upper or either vertical edge	N	N	N	N	N	N
Flaming or molten debris	N	N	N	N	N	N
Hole formation(≥5mm)	N	N	N	N	N	N

Remarks: Y: yes; N: no; N/A: not applicable

Requirement: 1) For Fabric, Seams, Labels and Covered hardware:

- a) Afterflame time shall be ≤2s.
- b) Afterglow time shall be ≤2s.
- c) No specimen shall permit any part of the lowest boundary of any flame to reach the upper or either vertical edge.
- d) No specimen shall give flaming or molten debris.
- e) 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 heat and flame protection. (For surface ignition only)
- f) The closure system can be opened at least once. (For covered hardware only)

Note: Not applicable for labels, embroideries, or other added decorations with a surface area of less than 10 cm².

2) For Exposed hardware only:

- a) Afterflame time shall be ≤2s.
- b) Afterglow time shall be ≤2s.
- c) No specimen shall melt or give flaming or molten debris.
- d) The closure system can be opened at least once.

Pre-treatment: ISO 6330:2012: Procedure No: 6N, machine wash at 60°C, flat dry.

Conditioning: Specimens other than leather shall be conditioned for at least 24 h in (20±2) °C and (65±5) %RH. Testing shall be carried out within 5 min of removal from this atmosphere.

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