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UNIFORM

## MEET STANDARDS



### EN11611

Protective Clothing for use in welding and allied processes.



### EN11612

Protective Clothing to protect Against heat and flame.



### EN1149-5

Electrostatic properties part 5 Material performance and design requirements.



### EN13034

Protection Clothing against liquid chemicals products, according to point 4, table 1.



### EN61482-2

Protective Clothing against the thermal hazard of an electric arc part 2: requirements.



### NFPA2112

Flame-Resistant Clothing for Protection of Industrial Personnel Against Short-Duration Thermal Exposures from Fire



# CERTIFICATE OF TEST

Certificate of test n°

**23CN0267**

AITEX declares that the articles:

Given by the company:

**"CFR260AS"**

**Xinxiang Zhuocheng Special Textile Co. Ltd**

According to information supplied by the customer:  
Fabric ref.: CFR260AS  
Composition and percentage: 98% Cotton, 2% Anti-static  
Weight: 260 gsm

23F, A.D. International Building, Jinsui Avenue  
CN-453000  
XINXIANG (Henan)

Complies with the requirements of the standard/s:

**EN ISO 11612:2015. PROTECTIVE CLOTHING. CLOTHING TO PROTECT AGAINST HEAT AND FLAME.**

Clause	TEST	RESULTS		REQUIREMENTS	REPORT No.
6.2.1	Heat resistance (180°C after 5 washing cycles)	Warp: -1,0 %	Weft: -0,3 %	No ignite, no melt and no shrink by more than 5%	2023CN0266
6.3	Limited flame spread as received and after 5 washing cycles (Procedure A)	A1		No specimen must ignite toward the top or toward the edges No specimen shall give hole formation of 5 mm or greater in any direction No specimen shall give flaming or molten debris The afterflame time is ≤ 2 s The afterglow time is ≤ 2 s	2023CN0266
	Limited flame spread as received and after 5 washing cycles (Procedure B)	A2		No specimen must ignite toward the top or toward the edges No specimen shall give flaming or molten debris The afterflame time is ≤ 2 s The afterglow time is ≤ 2 s	2023CN0266
6.4	Dimensional change after 5 washing cycles	Warp: -1,0 %	Weft: 0,0 %	≤ ± 3%	2023CN0266
6.5.1	Tensile strength after 5 washing cycles	Warp: 1300 N	Weft: 480 N	≥ 300 N	2023CN0266
6.5.2	Tear strength after 5 washing cycles	Warp: 19,4 N	Weft: 20,6 N	≥ 10 N	2023CN0266
7.2	Convective heat after 5 washing cycles	Level B1 HTP 24: 5,7 s		Level B1 4 ≤ RHTP 24 < 10	2023CN0266
7.3	Radiant heat after 5 washing cycles	Level C1 RHTP 24: 14,2 s		Level C1 7 ≤ RHTP 24 < 20	2023CN0266
7.5	Molten iron splash after 5 washing cycles	Level E3 202 g		Level E3 ≥ 200 g	2023CN0266
7.6	Contact heat after 5 washing cycles	Level F1 t: 7,7 s		Level F1 5 ≤ t < 10	2023CN0266

Remark: Washing instructions according to Standard EN ISO 6330:2021, method 6N and F drying (type A1 tumble drying).

The test results above indicated are shown in the testing report:

**2023CN0266**

Issued by AITEX on: 15/05/2023.

This document is of application for the tested sample, according to the tests that have been done in the previously mentioned dates in the reports above shown. This does not implies any monitoring or control activity on this product done by AITEX.  
This document is a test summary and does not imply a product certification.

Signed by: Raquel Muñoz González  
Manager Innovation Area

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ISABELLOPEZ LUMBRERAS  
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Complies with the requirements of the standard/s:

**EN ISO 11611:2015. PROTECTIVE CLOTHING. CLOTHING TO PROTECT AGAINST HEAT AND FLAME.**

	TEST	RESULTS		REQUIREMENTS	REPORT No.
Clause 6.2	Tensile strength after 5 washing cycles	Warp: 1300 N	Weft: 480 N	$\geq 400$ N	2023CN0266
Clause 6.3	Tear strength after 5 washing cycles	Warp: 19,4 N	Weft: 20,6 N	$\geq 15$ N	2023CN0266
Clause 6.7	Limited flame spread as received and after 5 washing cycles (Procedure A)	A1		No specimen must ignite toward the top or toward the edges No specimen shall give hole formation of 5 mm or greater in any direction No specimen shall give flaming or molten debris The afterflame time is $\leq 2$ s The afterglow time is $\leq 2$ s	2023CN0266
	Limited flame spread as received and after 5 washing cycles (Procedure B)	A2		No specimen must ignite toward the top or toward the edges No specimen shall give flaming or molten debris The afterflame time is $\leq 2$ s The afterglow time is $\leq 2$ s	2023CN0266
Clause 6.6	Dimensional change after 5 washing cycles	Warp: -1,0 %	Weft: 0,0 %	$\leq \pm 3\%$	2023CN0266
Clause 6.8	Small splashes of molten metal after 5 washing cycles	Class 1 20 drops		Class 1 $15 \leq \text{drops} < 25$	2023CN0266
Clause 6.9	Radiant heat after 5 washing cycles	Class 1 RHTP 24: 14,2 s		Class 1 $7 \leq \text{RHTP } 24 < 16$	2023CN0266
Clause 6.10	Electrical insulation after 5 washing cycles	$7,47 \cdot 10^6 \Omega$		$> 10^5 \Omega$	2023CN0266

Remark: Washing instructions according to Standard EN ISO 6330:2021, method 6N and F drying (type A1 tumble drying).

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CN-453000  
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Complies with the requirements of the standard/s:

**EN 61482-2:2020. PROTECTIVE CLOTHING AGAINST THE THERMAL HAZARDS OF AN ELECTRIC ARC. PART 2: REQUIREMENTS.**

	TEST	RESULTS		REQUIREMENTS	REPORT No.
Clause 4.3.1	Heat resistance (180)°C after 5 washing cycles	Warp: -1,0 %	Weft: -0,3 %	No ignite, no melt and no shrink by more than 5%	2023CN0266
Clause 4.3.1	Volume resistance after 5 washing cycles	8,61 · 10 <sup>7</sup> Ω		> 10 <sup>5</sup> Ω	2023CN0266
Clause 4.3.3	Limited flame spread after 5 washing cycles (Procedure A)	PASS		No specimen must ignite toward the top or toward the edges No specimen shall give hole formation of 5 mm or greater in any direction No specimen shall give flaming or molten debris The afterflame time is ≤ 2 s The afterglow time is ≤ 2 s	2023CN0266
Clause 4.3.4.1	Tensile strength after 5 washing cycles	Warp: 1300 N	Weft: 480 N	≥ 400 N	2023CN0266
Clause 4.3.4.2	Tear strength after 5 washing cycles	Warp: 19,4 N	Weft: 20,6 N	≥ 15 N	2023CN0266
Clause 4.3.5	Dimensional change after 5 washing cycles	Warp: -1,0 %	Weft: 0,0 %	≤ ± 3%	2023CN0266
Clause 4.4.3	Arc protection classes after 5 washing cycles	APC 1		APC 1	2023CN0266

**EN 1149-5:2018. PROTECTIVE CLOTHING. ELECTROSTATIC PROPERTIES. PART 5 MATERIAL PERFORMANCE AND DESIGN REQUIREMENTS.**

	TEST	RESULTS	REQUIREMENTS	REPORT No.
EN 1149-3:2004	Charge Decay test (Method 2) after 5 washing cycles	S = 0,8 T <sub>50</sub> < 0,01	S > 0,2 or t <sub>50</sub> < 4 s	2023CN0266

Remark: Washing instructions according to Standard EN ISO 6330:2021, method 6N and F drying (type A1 tumble drying).

The test results above indicated are shown in the testing report:

**2023CN0266**

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XINXIANG (Henan)

Complies with the requirements of the standard/s:

**EN 13034:2005+A1:2009 PROTECTION CLOTHING AGAINST LIQUID CHEMICALS PRODUCTS, ACCORDING TO POINT 4, TABLE 1:**

	TEST	RESULTS		REQUIREMENTS	REPORT No.
Clause 4.4 EN 14325:2004	Abrasion resistance after 5 washing cycles	Class 6 n > 2000 cycles		Class 6 n > 2000 cycles	2023CN0266
Clause 4.7 EN 14325:2004	Determination of tear resistance after 5 washing cycles	Class 2 Warp: 47,1 N / Weft: 25,0 N		Class 2 20 N < n ≤ 40 N	2023CN0266
Clause 4.9 EN 14325:2004	Determination of tensile strength after 5 washing cycles	Class 4 Warp: 1300 N / Weft: 480 N		Class 4 250 N < n ≤ 500 N	2023CN0266
Clause 4.10 EN 14325:2004	Puncture resistance after 5 washing cycles	Class 2 45,95 N		Class 2 10 N < n ≤ 50 N	2023CN0266
Clause 4.12 EN 14325:2004	Repellency to liquids after 5 washing cycles	Class 3 H <sub>2</sub> SO <sub>4</sub> (30 %): 97,5 %	Class 3 NaOH (10 %): 97,6 %	Class 3 > 95% Class 2 > 90% Class 1 > 80%	2023CN0266
Clause 4.13 EN 14325:2004	Resistance to penetration to liquids after 5 washing cycles	Class 3 H <sub>2</sub> SO <sub>4</sub> (30%): 0,1%	Class 3 NaOH (10 %): 0,3 %	Class 3 < 1% Class 2 < 5% Class 1 < 10%	2023CN0266

Remark: Washing instructions according to Standard EN ISO 6330:2021, method 6N and F drying (type A1 tumble drying).

The test results above indicated are shown in the testing report:

**2023CN0266**

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# CERTIFICATE OF COMPLIANCE

**Certificate Number** MH60240  
**Report Reference** MH60240-20220209  
**Issue Date** 2023-July-20

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Certified Outer Shell Fabrics:

Style Designation	Weight (oz/yd <sup>2</sup> )	Material Composition	Weave/Knit	Finish
CFR12OZ FLEECE	12.0	100% Cotton	Single-Sided Fleece	FR
DROTEX-CNFR07	7.0	88% Cotton/ 12% Nylon	Twill	FR
DROTEX-CFR7.5	7.5	100% Cotton	Twill	FR
CNFR08	8.0	88% Cotton/ 12% Nylon	Twill	FR
CNFR09	9.0	88% Cotton/ 12% Nylon	Twill	FR
CFRC11	11.0	100% Cotton	Canvas	FR
CNFR11	11.0	88% Cotton/ 12% Nylon	Canvas	FR
CFR07K	7.0	100% Cotton	Interlock Knit	FR
CFR15D	15.0	100% Cotton	Denim	FR

The above products are certified to the following standards:

Standard	Title	Edition
NFPA 2112	Standard on Flame-Resistant Clothing for Protection of Industrial Personnel Against Short-Duration Thermal Exposures from Fire	2023
CAN/CGSB 155.20	Standard on Workwear for Protection Against Hydrocarbon Flash Fire and Optionally Steam and Hot Fluids	2017

Note: These products have not been evaluated for optional steam and hot fluid protection.

  
Deborah Jennings-Conner, VP Regulatory Services  
UL LLC

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