aitex
textile research institute

ENAC
ENSAYO
ISO 17025
Nº12 / LE025

CERTIFICATE OF TEST

Certificate of test nº **23CN0517**

AITEX declares that the articles:

"CFR220AS"

According to information supplied by the customer:
Fabric reference: CFR220AS
Composition and percentage: 98% Cotton and 2% Anti-static
Weight: 220 gsm

Given by the company:

[redacted]

Complies with the requirements of the standard/s:

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

	TEST	RESULTS		REQUIREMENTS	REPORT No.
Clause 6.2.1	Heat resistance (180)ºC after 5 washing cycles	Warp: 0,0 %	Weft: 0,0 %	No ignite, no melt and no shrink by more than 5%	2023CN0516
Clause 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	2023CN0516
	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	2023CN0516
Clause 6.4	Dimensional change after 5 washing cycles	Warp: +2,0 %	Weft: +1,5 %	≤ ± 3%	2023CN0516
Clause 6.5.1	Tensile strength after 5 washing cycles	Warp: 1100 N	Weft: 470 N	≥ 300 N	2023CN0516
Clause 6.5.2	Tear strength after 5 washing cycles	Warp: 16,9 N	Weft: 17,0 N	≥ 10 N	2023CN0516
Clause 7.2	Convective heat after 5 washing cycles	Level B1 HTI^a 24: 5,4 s		Level B1 4 ≤ RHTI^a 24 < 10	2023CN0516
Clause 7.3	Radiant heat after 5 washing cycles	Level C1 RHTI^a 24: 15,0 s		Level C1 7 ≤ RHTI^a 24 < 20	2023CN0516
Clause 7.5	Molten iron splash after 5 washing cycles	Level E3 202,55 g		Level E3 ≥ 200 g	2023CN0516
Clause 7.6	Contact heat after 5 washing cycles	Level F1 t_t: 7,2 s		Level F1 5 ≤ t_t < 10	2023CN0516

Remark: Washing instructions according to Standard EN ISO 15797:2018, table 4, procedure 2 (75ºC) and A type drying (tumble drying).

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

2023CN0516

Signed by: Lucía Martínez
Head of PPE and Ballistic department

Issued by AITEX on: 24/07/2023.

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.

Firmado digitalmente por ISABEL|LLOPIS|LUMBRERAS
Fecha: 2023.07.26 10:10:12 +02'00'

Plaza Emilio Sala, 1 _ E-03801 ALCOY (Alicante) Spain _ Tel.: +34 96 554 22 00 Fax: +34 96 554 34 94
www.aitex.es

CERTIFICATE OF TEST

Certificate of test nº **23CN0517**

AITEX declares that the articles:

"CFR220AS"

According to information supplied by the customer:
Fabric reference: CFR220AS
Composition and percentage: 98% Cotton and 2% Anti-static
Weight: 220 gsm

Given by the company:

[redacted]

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: 1100 N	Weft: 470 N	≥ 400 N	2023CN0516
Clause 6.3	Tear strength after 5 washing cycles	Warp: 16,9 N	Weft: 17,0 N	≥ 15 N	2023CN0516
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 ≤ 2 s The afterglow time is ≤ 2 s	2023CN0516
	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	2023CN0516
Clause 6.6	Dimensional change after 5 washing cycles	Warp: +2,0 %	Weft: +1,5 %	≤ ± 3%	2023CN0516
Clause 6.8	Small splashes of molten metal after 5 washing cycles	Class 1 18 drops		Class 1 15 ≤ drops < 25	2023CN0516
Clause 6.9	Radiant heat after 5 washing cycles	Class 1 RHTI[a] 24: 15,0 s		Class 1 7 ≤ RHTI[a] 24 < 16	2023CN0516
Clause 6.10	Electrical insulation after 5 washing cycles	$9{,}74 \cdot 10^6\ \Omega$		$> 10^5\ \Omega$	2023CN0516

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 = 0,7 t_{50} < 0,01 s	S > 0,2 or t_{50} < 4 s	2023CN0516

Remark: Washing instructions according to Standard EN ISO 15797:2018, table 4, procedure 2 (75ºC) and A type drying (tumble drying).

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

2023CN0516

Signed by: Lucía Martínez
Head of PPE and Ballistic department

Issued by AITEX on: 24/07/2023.

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.

Firmado digitalmente por ISABEL|LLOPIS|LUMBRERAS
Fecha: 2023.07.26 10:09:58 +02'00'

Plaza Emilio Sala, 1 _ E-03801 ALCOY (Alicante) Spain _ Tel.: +34 96 554 22 00 Fax: +34 96 554 34 94
www.aitex.es