



Flame Retardant fabric for FR-clothing

ETNA

99% COTTON / 1% AS

350 GSM / SATIN 4/1



Fabric name	Etna
Fabric weight	350 ± 10 gsm
Composition	99% Cotton, 1% Antistatic
Full width	152 ± 2 cm
Weave	Satin 4/1
Finishes	Flame Retardant
Application	FR workwear jackets, trousers and coveralls
Washing instruction	

FR & SPECIAL PROPERTIES

Flame retardant	ISO 11612 (A1 & A2, B1, C1, E3, F1)	50×75°C ISO 15797
	ISO 11611 (Class 1)	50×75°C ISO 15797
	EN 11612 D3	5×75°C ISO 15797
Anti static	EN 1149-5 (1149-3 method 2)	50×75°C ISO 15797
Electric arc	EN 61482-1-2 Class 1 (4kA)	5×60°C ISO 6330
	EN 61482-2	5×60°C ISO 6330
Arc rating	EN 61482-1-1	5×60°C ISO 6330
Flame retardant	ISO 11612 (A1 & A2)	100×75°C ISO 15797

PHYSICAL PROPERTIES

		warp	weft
Tensile strength, N	ISO 13934-1:1999	1400	1100
Tearing strength, N	ISO 13937-2:2000	38	65
Dimensional Stability To Washing, max	ISO 5077-ISO 15797	3%	
Abrasion Resistance	ISO 12947-2:1999	21,000 rubs	
Pilling Resistance	ISO 12945-2:2001	4	

COLOUR FASTNESS

			Light	Mid	Dark	Special colors
			Orange, Yellow, Red	Green, Grey, Royal Blue	Dark Navy, Navy, Royal Blue	Black
Wash Fastness Method E2S (95°C)	ISO 105-C06	Colour Change	4-5	4-5	4-5	4-5
		Stain on Polyester	4-5	4-5	4	4
		Stain on Cotton	4	4	4	3-4
Rub Fastness	ISO 105-X12:1995	Wet	3	3	2-3	2
		Dry	4	4	4	4
Light Fastness	ISO 105-B02		3	4	4	4

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SIMPLIFIED TEST REPORT
No. 2023EP1347

Issued by Aitex on 18/05/2023

AITEX declares that the article/s:

Reference:

Etna

According to customer:

Colour Royal Blue

Fiber content and percentages: 99% Cotton,

1% Antistatic, FR-Satin 4/1

Weight 350 g/m²

Others (if any) 473

Given by the company:

XM Textiles Europe UAB

Dariaus ir Gireno st. 42A Office 509

LT-02189 Vilnius

Lituania

Has/have been tested according to:

ELECTRIC ARC EXPOSURE TEST: DETERMINATION OF THE ARC RATING (ELIM) (ATPV OR E_{lim}) OF FLAME RESISTANT MATERIALS FOR CLOTHING

Standard:

IEC 61482-1-1: 2019 Material test (Procedure A)

Getting the following results:

ARC RATING (ELIM)	9,3 cal/cm ²
ATPV	12 cal/cm ²

Pre-treatment:

5 washing cycles at 60°C, according to standard EN ISO 6330:2021, method 6N and type F drying.

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

2023EP1346

Signature:



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por IURKAJANTINE J
AAK TO
Fecha: 2023.05.19
12:40:10 +02'00'

Raquel Muñoz González
Manager Innovation Area

The test was carried out at Polígono Industrial Fuente del Jarró, C/ Ciudad de Gibraltar, 5; 46988 - Paterna (Valencia); which property is shared at 50% between research institutes AITEX and ITE

(*The Essential test data and liability clauses are included at indicated test report number and are at the applicant's disposal.

1/1



**STANDARD
100**

**BEWO 084394
TESTEX**

**This certificate BEWO 084394 is valid until
15.08.2025.**

SUPPORTING DOCUMENTS

- ✓ Test report : BJ015 245163.1
- ✓ Declaration of conformity in accordance with EN ISO 17050-1 as required by OEKO-TEX®
- ✓ OEKO-TEX® Terms of Use (ToU)

A handwritten signature in blue ink, appearing to read "M. Bachmann", positioned above a horizontal line.

**Matz Bachmann
Managing Director**

A handwritten signature in blue ink, appearing to read "D. Ajdinovic", positioned above a horizontal line.

**Dijana Ajdinovic
Ecology Team Leader**