

TEST REPORT

2023US0352

DATE OF RECEPTION

Date Format: dd/MM/yyyy 18/12/2023

DATE TESTS

Starting: 02/01/2024

Ending: 09/02/2024

APPLICANT

Flamesafe Workwear USA Ltd
1820 Avenue M, Suite 1086
US-11230 NEW YORK
United States

Att. Peter Bloom

IDENTIFICATION AND DESCRIPTION OF SAMPLES

Reference by AITEX	Reference by customer	AITEX sample description
2023US0352-S01	FLBCS430	Hoodie
2023US0352-S02	Coverall made of HODS NVYKA fabric	Coverall

TESTS CARRIED OUT

- HEAT TRANSFER EVALUATION OF FLAME RESISTANT MATERIALS.
- DETERMINATION OF HEAT RESISTANCE 260°C.
- PROTECTIVE CLOTHING AGAINST HEAT AND FLAME – TEST METHOD FOR COMPLETE GARMENTS – PREDICTION FOR BURN INJURY USING AN INSTRUMENTED MANIKIN.
- DETERMINATION OF TEMPERATURE OF MELTING.
- MASS PER UNIT AREA.
- PRE-TREATMENT FOR DOMESTIC WASHING AND DRYING PROCEDURES FOR TEXTILE TESTING.
- SEAM TENSILE RESISTANCE.
- PRE-TREATMENT FOR NFPA 2112 WASHING AND DRYING PROCEDURE.
- DETERMINATION OF DIMENSIONAL CHANGE IN DOMESTIC WASHING AND DRYING.
- LIMITED FLAME SPREAD.

Tests marked with * are not included within the scope of the ENAC accreditation.





DESCRIPTION OF SAMPLES



Reference by AITEX: 2023US0352-S01

Reference by customer:

FLBCS430

AITEX sample description:

Garment made of knitted fabric.

Information supplied by the customer

Type of garment: Hoodie

External layer:

Style HODCS NUYKA

Colour Navy

Fabricant Cotton/ Spandex 95/5

Knitted fabric

Fabric structure 3 thread fleece

Weight 430 g/m²



Reference by AITEX: 2023US0352-S02

Reference by customer:

Coverall made of HODS NVYKA fabric

AITEX sample description:

Coverall made by customer for flash fire manikin test.

AITEX Subsamples	Subsample Description
2023US0352-S01.1	Fabric HOODCS NVYKA / Fabric HOODCS NVYKA
2023US0352-S01.1_P1	Fabric - AFTER WASH 3 cycles NFPA 2112 / Fabric - AFTER WASH 3 cycles NFPA 2112
2023US0352-S01.1_P2	Fabric - AFTER WASH 100 cycles NFPA 2112
2023US0352-S01.1_P3	Fabric - AFTER WASH 5 cycles AATCC 135
2023US0352-S01.2	Elastic cuff and waistband
2023US0352-S01.2_P1	Elastic cuff and waistband - AFTER WASH 3 cycles NFPA 2112
2023US0352-S01.2_P2	Elastic cuff and waistband - AFTER WASH 100 cycles NFPA 2112
2023US0352-S01.3	Hood cord
2023US0352-S01.3_P1	Hood cord - AFTER WASH 3 cycles NFPA 2112
2023US0352-S01.3_P2	Hood cord - AFTER WASH 100 cycles NFPA 2112
2023US0352-S01.4	Thread
2023US0352-S01.5	Seam
2023US0352-S01.6	Label
2023US0352-S01.6_P1	Label - AFTER WASH 100 cycles NFPA 2112
2023US0352-S02_P1	Coverall - AFTER WASH 1 cycle NFPA 2112



EXECUTIVE SUMMARY

	Reference	Test/Standard	Result
NFPA 2112:2023	2023US0352-S01.1+ 2023US0352-S01.1_P1	HEAT TRANSFER EVALUATION (TPP/HTP) ASTM F 2700:2020	PASS
	2023US0352-S01.1+ 2023US0352-S01.1_P1	DETERMINATION OF HEAT RESISTANCE 260°C ASTM F2894:2021	PASS
	2023US0352-S01.1+ 2023US0352-S01.1_P2	LIMITED FLAME SPREAD ASTM D 6413/D 6413M:2022	PASS
	2023US0352-S01.1_P3	DETERMINATION OF DIMENSIONAL CHANGE IN DOMESTIC WASHING AND DRYING AATCC TM 135:2018T	TESTED
	2023US0352-S01.5	SEAM TENSILE RESISTANCE ASTM D 1683/D1683M:22	TESTED
	2023US0352-S02_P1	PROTECTIVE CLOTHING AGAINST HEAT AND FLAME – TEST METHOD FOR COMPLETE GARMENTS – PREDICTION FOR BURN INJURY USING AN INSTRUMENTED MANIKIN - THERMO TEX TEST ASTM F 1930-23	PASS