CERTIFICATE OF TEST

Certificate of test nº **21CN0919**

AITEX declares that the articles:

"FABRIC POBFC3DY-1"
Information according to the customer:
Fabric reference: POBFC3DY-1
Composition and percentage: 98% Polyester, 2% Carbon and 60% Protex, 40% Cotton
Color: Fluo Yellow / Fluo Orange

Given by the company:

KUNSHAN SUNSHINETEX NEW MATERIAL CO. LTD.
No. 417 Sanxiang Road
CN-215300 Kunshan
JIANGSU

Complies with the requirements of the standard/s:

EN ISO 20471:2013/A1:2016 HIGH VISIBILITY WARNING CLOTHING FOR PROFESSIONAL USE, ACCORDING FOLLOWING POINTS:
5.1 Colour performance requirements of new material
5.2 Colour after Xenon test
5.3.1 Colour fastness to rubbing
5.3.2 Colour fastness to perspiration
5.3.3 Colour fastness to laundry
5.4 Dimensional change of background material (x 5 cycles washing, 4N, Tumble Dryer F).
5.5.1 Tensile strength of woven material
5.5.3 Tensile strength and tear resistance of coated fabrics and laminates
7.5 Ageing --- 7.5.1. General---Test after wash, according ISO 6330:2012, 5 and 25 washing cycles at 40ºC, 4N, and Tumble Dryer, F.
EN 343:2019 PROTECTIVE CLOTHING - PROTECTION AGAINST RAIN
4.2 Water penetration resistance as received - Class 1
4.2 Water penetration resistance after washing and dry cleaning cycles – Class 4
4.2 Water penetration resistance after Abrasion cycles – Class 4
4.2 Water penetration resistance after flexion treatment – Class 4
4.2 Water penetration resistance after oil and fuel treatment – Class 4
4.3 Water vapour resistance - Class 2
4.4 Determination of breaking strength and elongation
4.5 Determination of tear resistance
4.7 Determination of dimensional change in domestic washing and drying
EN ISO 11612:2015 PROTECTIVE CLOTHING. CLOTHING TO PROTECT AGAINST HEAT AND FLAME.
6.2 Heat resistance (180± 5)ºC – Pass - (x 5 washing cycles, 4N, Tumble Dryer F).
6.3.2 Limited flame spread. Method A – A1 – (as received and after 5 washing cycles, 4N, Tumble Dryer F).
6.3.3 Limited flame spread. Method B – A2 – (as received and after 5 washing cycles, 4N, Tumble Dryer F).
6.4 Dimensional change due to cleaning – Pass - (x 5 washing cycles, 4N, Tumble Dryer F).
6.5.1 Tensile strength – Pass - (x 5 washing cycles, 4N, Tumble Dryer F).
6.5.2 Tear Resistance – Pass - (x 5 washing cycles, 4N, Tumble Dryer F).
7.2 Convective heat – B1 - (x 5 washing cycles, 4N, Tumble Dryer F).
7.3 Radiant heat – C1 - (x 5 washing cycles, 4N, Tumble Dryer F).
7.5 Molten iron splash – E3 - (x 5 washing cycles, 4N, Tumble Dryer F).
7.6 Contact heat – F2 - (x 5 washing cycles, 4N, Tumble Dryer F).
EN ISO 11611:2015 PROTECTIVE CLOTHING FOR USE IN WELDING AND ALLIED PROCESSES.
6.2 Tensile strength – Pass - (x 5 washing cycles, 4N, Tumble Dryer F).
6.3 Tear Resistance – Pass - (x 5 washing cycles, 4N, Tumble Dryer F).
6.6 Dimensional change due to cleaning – Pass - (x 5 washing cycles, 4N, Tumble Dryer F).
6.7.2 Limited flame spread. Method A – A1 – (as received and after 5 washing cycles, 4N, Tumble Dryer F).
6.7.3 Limited flame spread. Method B – A2 – (as received and after 5 washing cycles, 4N, Tumble Dryer F).
6.8 Impact of spatter – Class 2 - (x 5 washing cycles, 4N, Tumble Dryer F).
6.9 Radiant heat – Class 2 - (x 5 washing cycles, 4N, Tumble Dryer F).
6.10 Electrical resistance – Pass - (x 5 washing cycles, 4N, Tumble Dryer F).
EN 1149-5:2018. PROTECTIVE CLOTHING. ELECTROSTATIC PROPERTIES. PART 5: MATERIAL PERFORMANCE AND DESIGN REQUIREMENTS.
4.2.1 Charge decay, according EN 1149-3:2004 – Pass -- (x 5 washing cycles, 4N, Tumble Dryer F).
EN 13034:2005+A1:2009 PROTECTION CLOTHING AGAINST LIQUID CHEMICALS PRODUCTS.
4.4 (in EN 14325:2004) Abrasion resistance (x 5 washing cycles, 4N, Tumble Dryer F) - LEVEL 6.
4.7 (in EN 14325:2004) Tear resistance (x 5 washing cycles, 4N, Tumble Dryer F) - LEVEL 3.
4.9 (in EN 14325:2004) Tensile strength (x 5 washing cycles, 4N, Tumble Dryer F) - LEVEL 4.
4.10 (in EN 14325:2004) Puncture resistance (x 5 washing cycles, 4N, Tumble Dryer F) - LEVEL 2.
4.12 and 4.13 (in EN 14325:2004) Liquid repellency and Resistance to penetration by liquids (x 5 washing cycles, 4N, Tumble Dryer F): Sulphuric acid 30% (IR = 3; IP= 3) // Sodium hydroxide 10 % (IR = 3; IP= 3) // O-Xylene (IR = 2; IP= 3) // 1-Butanol (IR = 3; IP= 3)
EN 61482-1-2:2014. LIVE WORKING. PROTECTIVE CLOTHING AGAINST THE THERMAL HAZARDS OF AN ELECTRIC ARC. PART 1-2: TEST METHODS. METHOD 2: DETERMINATION OF ARC PROTECTION CLASS OF MATERIAL AND CLOTHING BY USING A CONSTRAINED AND DIRECTED ARC (BOX TEST).
4.1 Live working – Protective clothing against the thermal hazards of an electric arc – Part 1.2:
Test methods – Method 2: Determination of arc protection class of material and clothing by using a constrained and directed arc (Box Test) – Class 1 - (x 5 washing cycles, 4N, Tumble Dryer F)
IEC 61482-2:2018. PROTECTIVE CLOTHING AGAINST THE THERMAL HAZARDS OF AN ELECTRIC ARC. PART 2: REQUERIMENTS.
4.3.1 Heat resistance (180± 5)ºC – Pass -- (x 5 washing cycles, 4N, Tumble Dryer F).
4.3.2 Volume resistance – Pass -- (x 5 washing cycles, 4N, Tumble Dryer F).
4.3.3 Limited flame spread. Method A – Pass – (after 5 washing cycles, 4N, Tumble Dryer F).
4.3.4.1 Tear Resistance – Pass - (x 5 washing cycles, 4N, Tumble Dryer F).
4.3.4.2 Tensile strength – Pass - (x 5 washing cycles, 4N, Tumble Dryer F).
4.3.5 Dimensional change due to cleaning – Pass - (x 5 washing cycles, 4N, Tumble Dryer F).

Remark: washing instructions according to Standard ISO 6330:2012, method 4N and type F drying (tumble dryer).
Remark: The tests have been carried out in the following reports: 2021CN0918 (Date tests ending: 21/09/2021).

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

2021CN0918

Issued by AITEX on: 18/10/2021.
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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