Asociación de Investigación de la Industria Textil – C.I.F.: G03182870

# TEST REPORT

**2023CN0075**

**DATE OF RECEPTION**

***Date Format: dd/MM/yyyy*** 06/02/2023

**DATE OF TESTS**

Starting : 06/02/2023

Ending: 10/02/2023

**APPLICANT**

KUNSHAN SUNSHINETEX NEW MATERIAL Co. Ltd.
No. 417 Sanxiang Road
CN-215300 Kunshan
JIANGSU

China

## REFERENCE OF SAMPLES

| Reference by AITEX | Reference by customer | AITEX sample description |
|---|---|---|
| 2023CN0075-S01 | POBFC3DY-1 | Woven fabric |

## TESTS CARRIED OUT

- PRE-TREATMENT FOR DOMESTIC WASHING AND DRYING PROCEDURES FOR TEXTILE TESTING
- DETERMINATION OF BEHAVIOUR OF MATERIALS ON IMPACT SPLASHES OF MOLTEN METAL - ALUMINIUM

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

## DESCRIPTION OF SAMPLES




**Reference by AITEX***:* 2023CN0075-S01
**Reference by customer***:*
POBFC3DY-1
**Information supplied by the customer:**

Composition and percentage: 98% Polyester and 2% Carbon, 60% Protex and 40% Cotton

Colour: HV Orange

| AITEX Subsamples | Subsample Description |
|---|---|
| 2023CN0075-S01.1 | FABRIC AFTER WASH 5 CYCLES |

# EXECUTIVE SUMMARY

| | Reference | Test/Standard | Result |
|---|---|---|---|
| **EN ISO 11612:2015** | 2023CN0075-S01.1 | DETERMINATION OF BEHAVIOUR OF MATERIALS ON IMPACT SPLASHES OF MOLTEN METAL - ALUMINIUM<br>**EN ISO 9185:2007** | D2 |

# REQUIREMENT SUMMARY

## DETERMINATION OF BEHAVIOUR OF MATERIALS ON IMPACT SPLASHES OF MOLTEN METAL - ALUMINIUM

### REQUIREMENT ACCORDING EN ISO 11612:2015

| Performance level | Molten aluminum (g) |
|---|---|
| D1 | 100 < 200 |
| D2 | 200 < 350 |
| D3 | ≥ 350 |

# RESULTS

## PRE-TREATMENT FOR DOMESTIC WASHING AND DRYING PROCEDURES FOR TEXTILE TESTING

**Standard**

EN ISO 6330:2021

**Test date**

**Start date** 06/02/2023 **End date** 07/02/2023

**Washing procedure**

4N

**Washing temperature**

40ºC

**Washing cycles**

5

**Dryer type**

JAMES HEAL 13780E12

**Drying procedure**

F (type A1 tumble drying)

**Drying temperature**

70ºC

**Washing powder**

Reference detergent 3

**Reference**
2023CN0075-S01

| Units | Dry mass of the samples(Kg) | Counterweight mass Kg *Kg* | Counterweight type | Equipment |
|---|---|---|---|---|
| 1 | 0.61 | 1.5 | Type III */ Type III* | WASCATOR 13872E12 |

# RESULTS

## DETERMINATION OF BEHAVIOUR OF MATERIALS ON IMPACT SPLASHES OF MOLTEN METAL - ALUMINIUM

**Standard**

EN ISO 9185:2007

**Metal**

Aluminium

| Pouring temperature | Pouring angle | Pouring height |
|---|---|---|
| (780±20) ºC | (60±1) ºC | (225±5) mm |

**Uncertainty**

± 1 % of the value measured

**Reference**

2023CN0075-S01.1

**Test date**

**Start date** 08/02/2023 **End date** 10/02/2023

**Atmosphere for testing**

**Temperature** 20.2 ºC **Relative Humidity** 36.1 %

| Mass of metal used (g) | Mass of metal pouring (g) | Ignition | Puncture | Metal adhered to fabric | Assessment of PVC film |
|---|---|---|---|---|---|
| 116.26 | 111.26 | NO | NO | NO | NOT DAMAGED |
| 211.66 | 204.66 | NO | NO | NO | NOT DAMAGED |
| 212.68 | 205.68 | NO | NO | NO | NOT DAMAGED |
| 212.27 | 206.27 | NO | NO | NO | NOT DAMAGED |
| 211.43 | 204.43 | NO | NO | NO | NOT DAMAGED |
| 366.12 | 355.12 | NO | NO | NO | DAMAGED |

**Lucia Martinez**
Head of PPE and Ballistics department



Date: 10/02/2023 13:39:13
Digitally Signed by:ISABEL LLOPIS LUMBRERAS - NIF:21678551Q

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1- AITEX is liable only for the results of the methods of analysis used, as expressed in the report and referring exclusively to the materials or samples indicated in the same which are in its possession, the professional and legal liability of the Centre being limited to these. Unless otherwise stated, the samples were freely chosen and sent by the applicant.

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