




| | |
|---------------------|---|
| Fabric name | Builder-240 |
| Fabric weight | 240 ± 5 gsm |
| Composition | 100% Cotton |
| Full width | 150 ± 2 cm |
| Weave | twill 3/1 |
| Finishes | — |
| Area of use | multi seasonal workwear |
| Washing instruction |  |

Physical properties*

| | | | warp | weft |
|---|--|------------------|----------|------|
| 1 | Tensile strength, N | ISO 13934-1:2013 | 1400 | 800 |
| 2 | Tearing strength, N | ISO 13937-3:2000 | 29 | 22 |
| 3 | Dimensional Stability To Washing, max. | ISO 6330:2000 | 3.0% | 3.0% |
| 4 | Abrasion Resistance | ISO 12947-2:2002 | > 20 000 | |
| 5 | Pilling Resistance (after 1000 rev.) | ISO 12945-2:2000 | 3-4 | |
| 6 | Colour Fastness To Washing (cotton+polyester) 60°C, min. | ISO 105-C06:2010 | | |
| | Colour change | ISO 105-C06:2010 | 4-5 | |
| | Colour staining | ISO 105-C06:2010 | 4 | |
| 7 | Colour Fastness To Perspiration, min. | ISO 105-E04:2013 | | |
| | Colour change | | 4-5 | |
| | Colour staining | | 4 | |
| 8 | Colour Fastness To Rubbing, min. | ISO 105-X12:2001 | | |
| | Dry | | 3-4 | |
| | Wet | | 2-3 | |
| 9 | Colour Fastness To Light | ISO 105-B02:2013 | > 4 | |

* The values shown are indicative and may vary slightly from batch to batch.

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Test Report

SL52035261736801TX

Date: July 02, 2020

Page 1 of 3

SHANGHAI XM GROUP LTD

ROOM 2403, ZHONGYI INTERNATIONAL BUILDING NO.1833, NORTH ZHONGSHAN ROAD, SHANGHAI

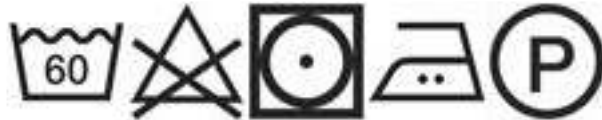
The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : (A)Woven fabric (BUILDER-240: (BUILDER-240, 100% cotton, 240 gsm, Order: XMT-20-023)

Composition : (A)100% cotton

Sample Color : (A)Navy #C2

Proposed Care Instruction :



Sample Receiving Date : Jun 29, 2020

Testing Period : Jun 29, 2020 - Jul 02, 2020

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).

Test Performed : Selected test(s) as requested by applicant

Signed for and on behalf of

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd Testing Center

Hattie Chen

Hattie Chen (Account Executive)

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Colour Fastness To Light

(ISO 105-B02:2014; Method 2 (Modified), use Xenon arc lamp, Exposure Cycle: A1, no flip-flop mode was used)

Comparison upto blue wool reference 4

| | | |
|--------------|------|-----|
| - | Unit | (A) |
| Grade(B.W.S) | - | 4 |

Colour Fastness To Rubbing

(ISO 105-X12:2016; Size of rubbing finger: 16mm dia.)

As Received

| | | |
|--------------|------|-----|
| - | Unit | (A) |
| Dry Staining | - | 4 |
| Wet Staining | - | 2-3 |

Remark: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is worst and 5 is best.

Colour Fastness To Washing

(ISO 105-C06:2010; Test No.:C2S, Machine wash at 60°C with 4 g/L ECE (B) and 1g/L Sodium Perborate with 25 Steel Balls)

| | | |
|--------------------------------|------|-----|
| - | Unit | (A) |
| Change in Shade | - | 4-5 |
| Staining On Multi-fibre Stripe | | |
| Acetate | - | 4-5 |
| Cotton | - | 4-5 |
| Polyamide | - | 4-5 |
| Polyester | - | 4-5 |
| Acrylic | - | 4-5 |
| Wool | - | 4-5 |

Remark: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is worst and 5 is best.

Dimensional Stability To Washing

(ISO 3759:2011/ISO 5077:2007/ISO 6330:2012; Using horizontal axis, front-loading type machine; Procedure No.6N, Machine Wash At 60°C; with 2kg total dry mas s (Type I (100% Cotton) Ballast+ Specimen), 'ECE(A)' detergent+ Sodium Perborate+ TAED, Tumble Dry Low, Less Than 60°C)

After 1 Wash

| | | |
|------------|------|------|
| - | Unit | (A) |
| Lengthwise | % | -2.9 |
| Widthwise | % | -2.6 |

Remark: (+)Means Growth; (-)Means Shrinkage



Tearing Strength

(ISO 13937-2:2000;)

| | | |
|------------------------|------|-----|
| - | Unit | (A) |
| Warp/Length Yarns Torn | N | 29 |
| Weft/Width Yarns Torn | N | 22 |

End of Report



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**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



Constructor-240

100% BUMBAC

240 GSM / TWILL 3/1



| | |
|-------------------------|-------------------------------------|
| Numele materialului | Constructor-240 |
| Greutatea materialului | 240 ± 5 g/m ² |
| Compoziție | 100% bumbac |
| Latimea întreaga | 150 ± 2 cm |
| ese | twill 3/1 |
| Finisaje | — |
| Zona de utilizare | îmbrăcăminte de lucru multisezonală |
| Instrucțiuni de spălare | |

Proprietăți fizice*

| | | | urzeală | bătătură |
|---|---|------------------|----------|----------|
| 1 | Rezistența la tracțiune, N | ISO 13934-1:2013 | 1400 | 800 |
| 2 | Rezistența la rupere, N | ISO 13937-3:2000 | 29 | 22 |
| | Stabilitate tridimensională la spălare, max. | ISO 6330:2000 | 3,0% | 3,0% |
| 4 | Rezistența la abraziune | ISO 12947-2:2002 | > 20 000 | |
| 5 | Rezistență la pilling (după 1000 r.) | ISO 12945-2:2000 | 3-4 | |
| 6 | Rezistența culorii la spălare (bumbac+poliester) 60°C, min. | ISO 105-C06:2010 | | |
| | Schimbarea culorii ISO 105-C06:2010 | | 4-5 | |
| | Colorare de culoare ISO 105-C06:2010 | | 4 | |
| 7 | Rezistența culorii la transpirație, min. | ISO 105-E04:2013 | | |
| | Schimbarea culorii | | 4-5 | |
| | Colorare de culoare | | 4 | |
| 8 | Rezistența culorii la frecare, min. | ISO 105-X12:2001 | | |
| | Uscat | | 3-4 | |
| | Umed | | 2-3 | |
| 9 | Rezistența culorii la lumină * Valorile | ISO 105-B02:2013 | > 4 | |

afișate sunt orientative și pot varia ușor de la lot la lot.

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Raport de testare
SHANGHAI XM GROUP LTD

SL52035261736801TX

Data: 02 iulie 2020

Pagina 1 din 3

ROOM 2403, ZHONGYI INTERNATIONAL BUILDING NR.1833, NORTH ZHONGSHAN ROAD, SHANGHAI

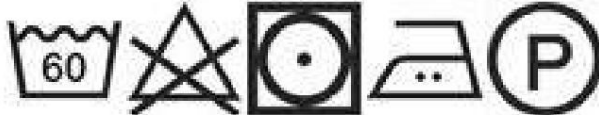
Următoarele mostre au fost/au fost transmise și identificate în numele clientului ca:

Exemplu de descriere : (A) țesătură (BUILDER-240: (BUILDER-240,100% bumbac, 240 g/m²),
Comanda: XMT-20-023)

Compoziție : (A)100% bumbac

Culoare eșantion : (A)Marina #C2

Instrucțiuni de îngrijire propuse:



Data primirii mostrei: 29 iunie 2020

Perioada de testare : 29 iunie 2020 - 02 iulie 2020

Rezultat(e) test : Dacă nu se specifică altfel, rezultatele prezentate în acest raport de testare se referă numai la
eșantioanele testate, pentru mai multe detalii, vă rugăm să consultați următoarea (paginile).

Test efectuat : Testele selectate conform solicitării solicitantului

Semnat pentru și în numele lui

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd Centrul de testare

Hattie Chen (executiv de cont)



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Raport de testare
Rezultatul testului

SL52035261736801TX

Data: 02 iulie 2020

Pagina 2 din 3

Rezistența culorii la lumină

(ISO 105-B02:2014; Metoda 2 (Modificat), utilizați lampă cu arc cu xenon, Ciclul de expunere: A1, nu a fost utilizat modul flip-flop)

Comparatie cu referința de lână albastră 4

| | Unitate | (A) |
|------------|---------|-----|
| Nota (BWS) | - | 4 |

Rezistența culorii la frecare

(ISO 105-X12:2016; Dimensiunea degetului de frecare: 16 mm dia.)

Asa cum a fost primit

| | Unitate | (A) |
|-----------------|---------|-----|
| Colorare uscată | - | 4 |
| Colorare umedă | - | 2-3 |

Observație: Evaluarea pe scară de gri se bazează pe scara în 5 trepte de la 1 la 5, unde 1 este cel mai rău și 5 este cel mai bun.

Rezistența culorii la spălare

(ISO 105-C06:2010; Test Nr.:C2S, Spălare la mașină la 60°C cu 4 g/L ECE (B) și 1 g/L Perborat de sodiu cu 25 de bile de oțel)

| | Unitate | (A) |
|-------------------------------|---------|-----|
| Schimbarea în umbră | - | 4-5 |
| Colorare pe dungi multi-fibre | | |
| Acetat | - | 4-5 |
| Bumbac | - | 4-5 |
| Poliamidă | - | 4-5 |
| Poliester | - | 4-5 |
| Acril | - | 4-5 |
| Lână | - | 4-5 |

Observație: Evaluarea pe scară de gri se bazează pe scara în 5 trepte de la 1 la 5, unde 1 este cel mai rău și 5 este cel mai bun.

Stabilitate dimensională la spălare

(ISO 3759:2011/ISO 5077:2007/ISO 6330:2012; Folosind axa orizontală, mașină de tip cu încărcare frontală; Procedura nr. 6N, Spălare la mașină la 60°C; cu 2 kg masă uscată totale (Tip I (100% bumbac) Detergent "Balast + Speciborat de sodiu, TAAA" + Uscare la rufe la temperaturi scăzute, mai puțin de 60°C)

După 1 spălare

| | Unitate | (O) |
|------------|---------|------|
| Pe lungime | % | -2,9 |
| Pe lățime | % | -2,6 |

Observație: (+) Înseamnă creștere; (-) Înseamnă contracție



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Raport de testare

SL52035261736801TX

Data: 02 iulie 2020

Pagina 3 din 3

Forta de rupere

(ISO 13937-2:2000;)

| | Unitate | (A) |
|-------------------------------|---------|-----|
| Urzeală/Lungime Fire rupte | N | 29 |
| Fire de bătătură/lățime rupte | N | 22 |

Sfârșitul raportului



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**BEWO 084394
TESTEX**

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SUPPORTING DOCUMENTS

- ✓ Test report : BJ015 245163.1
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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

Zurich, 2024-07-29