



|                     |                                                                                     |
|---------------------|-------------------------------------------------------------------------------------|
| Fabric name         | Mechanic-280                                                                        |
| Fabric weight       | 280 ± 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 | 1000     | 500  |
| 2 | Tearing strength, N                                      | ISO 13937-3:2000 | 30       | 28   |
| 3 | Dimensional Stability To Washing, max.                   | ISO 6330:2000    | 3.0%     | 3.0% |
| 4 | Abrasion Resistance                                      | ISO 12947-2:2002 | > 30 000 |      |
| 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 | 3-4      |      |
|   | Colour staining                                          | ISO 105-C06:2010 | 3-4      |      |
| 7 | Colour Fastness To Perspiration, min.                    | ISO 105-E04:2013 |          |      |
|   | Colour change                                            |                  | 3-4      |      |
|   | Colour staining                                          |                  | 3-4      |      |
| 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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The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : (A)Woven fabric (MECHANIC-280,100% cotton, 280 gsm 150 cm, Order:XMT-20-079 )

Sample Color : (A)Dark Navy #21

Proposed Care Instruction :



Sample Receiving Date : Jul 22, 2020

Testing Period : Jul 22, 2020 - Jul 27, 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 | -    | 4-5 |
| Wet Staining | -    | 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 4g/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.



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## 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 mass (Type I (100% Cotton) Ballast+ Specimen), 'ECE(A)' detergent+ Sodium Perborate+ TAED, Tumble Dry Low, Less Than 60°C, warm iron)

### After 1 Wash

|            | Unit | (A)  |
|------------|------|------|
| Lengthwise | %    | -3.0 |
| Widthwise  | %    | -0.4 |

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

## Tearing Strength

(ISO 13937-2:2000; )

|                        | Unit | (A) |
|------------------------|------|-----|
| Warp/Length Yarns Torn | N    | 33  |
| Weft/Width Yarns Torn  | N    | 37  |

\*\*\*End of Report\*\*\*



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**This certificate BEWO 084394 is valid until  
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### **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