

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

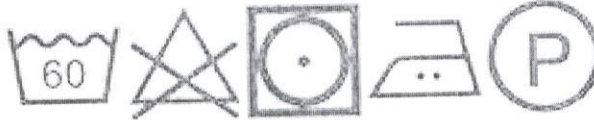
The following sample(s) was/were submitted and identified on behalf of the client as:

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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Test Result

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)

After 1 Wash

|            | Unit | (A)  |
|------------|------|------|
| Lengthwise | %    | -3.0 |
| Widthwise  | %    | -2.4 |

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

Tearing Strength

(ISO 13937-2:2000; )

|                        | Unit | (A) |
|------------------------|------|-----|
| Warp/Length Yarns Torn | N    | 31  |
| Weft/Width Yarns Torn  | N    | 23  |

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



### 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 mass (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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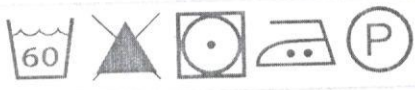
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# Builder-240

100% COTTON

240GSM / 7.08 oz TWILL 3/1



|                     |  |
|---------------------|--|
| Fabric name         | Builder-240  |
| Fabric weight       | 240gsm ±3%   |
| Composition         | 100% cotton  |
| Full width          | 150cm  |
| 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 | 25              | 25   |  |
| 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  | ISO 12945-2:2000 | 3-4             |      |  |
| 6 | Colour Fastness To Washing<br>(cotton+polyester) 60°C, min. | ISO 105-C06:2010 |                 |      |  |
|   |   |                  | Colour change   | 4-5  |  |
|   |   |                  | Colour staining | 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             |      |  |

### XM Textiles Europe

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Lithuania

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Email: info@xmtextiles.com  
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|   |   | Издание: 3       |
|   |   | Дата: 01.03.2021 |
|   |   | Стр. 1/2         |



УТВЕРЖДАЮ

Директор «LabTest - Airin» SRL

Швец И.А.

*« 21 » апреля 2021*

Digitally signed by Vrabii Constantin  
Date: 2022.09.16 15:13:27 EEST  
Reason: MoldSign Signature  
Location: Moldova



**На испытание представлены образцы**

*Куртка и полукOMBинезон рабочие из ткани 100% хлопок, синего цвета;*

**Заявитель** *SRL „ECHIPROT”, г. Кишинёв, бул. Дачия, 53/5*

**Количество представленных образцов** *1 шт.*

**Дата поступления образцов** *19.04.2021*

**Дата начала испытаний** *20.04.2021*      **Дата окончания испытаний** *21.04.2021*

**Образцы отобраны и представлены на основе заявки №** *K-34-21* **от** *19.04.2021*

**Виды и цели испытаний** *для информации*

**Условия проведения испытаний** *t = 18 - 22 °C*

Результаты испытаний представлены в таблице.

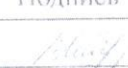

|   |   |                  |
|---|---|------------------|
| «LabTest - Airin» S.R.L.<br>мун. Кишинэу, ул. Дософтей, 124<br>email: labtestairin@mail.ru<br>тел. 068-00-55-35 | ПРОТОКОЛ ИСПЫТАНИЙ<br>№. 198 - 21<br>« 21 » апреля 2021 | Код: ПИ 7.8 - 1  |
|   |   | Издание: 3       |
|   |   | Дата: 01.03.2021 |
|   |   | Стр. 2/2         |

Результаты испытаний образцов *Куртка и полукомбинезон рабочие из ткани*

*100% хлопок, синего цвета;*

| № исп. | Наименование испыт. показателя, единицы измерения, предел измерения                        | Ид на метод испытания  | Фактич. показатель |
|--------|--|--|--------------------|
| 1      | Поверхностная плотность, г/м <sup>2</sup>  | SM SR EN 12127:2013  | 294                |
| 2      | Состав волокон, % (от общей массы образца):<br>- хлопок                                    | FP „Stabilirea metodelor...”<br>п. 7   | 100                |
| 3      | Разрывная нагрузка образца 50x200 мм, Н, не менее:<br>- по основе<br>- по утку             | SM EN ISO<br>13934-1:2016  | 1109<br>543        |
| 4      | Раздирающая нагрузка образца 70x200 мм, Н, не менее:<br>- по основе<br>- по утку           | ГОСТ 3813-72   | 40<br>40           |
| 5      | Воздухопроницаемость, дм <sup>3</sup> /м <sup>2</sup> ·с, не менее                         | ГОСТ 12088-77<br>п. 4.3  | 181                |
| 6      | Стойкость к истиранию, циклы   | ГОСТ 18976-73  | 3000               |
| 7      | Изменение размеров после мокрой обработки, %, не более:<br>- по основе<br>- по утку        | ГОСТ 30157.1-95<br>ГОСТ 30157.0-95<br>Режим C <sub>11</sub> P <sub>6</sub> O <sub>1</sub> G <sub>8</sub> | 0,3<br>0,5         |
| 8      | Устойчивость окраски, баллы, мин, к действию:  | Группа окраски - прочная ГОСТ 9733.0-83  |                    |
|        | • <u>стирки 3</u><br>- изменение первоначальной окраски<br>- закрашивание белого материала | ГОСТ 9733.4-83   | 4<br>4             |
|        | • <u>«пота»</u><br>- изменение первоначальной окраски<br>- закрашивание белого материала   | ГОСТ 9733.6-83   | 4<br>4             |
|        | • <u>органических растворителей</u><br>- изменение первоначальной окраски                  | ГОСТ 9733.13-83  | 4                  |
|        | • <u>сухого трения</u><br>- закрашивание белого материала                                  | ГОСТ 9733.27-83  | 4                  |
|        | • <u>мокрого трения</u><br>- закрашивание белого материала                                 | ГОСТ 9733.27-83  | 4                  |

Результаты испытаний касаются только испытанных образцов.  
Воспроизводство протокола возможно только в полном объеме с письменного разрешения ИЛ.  
Информация о неопределённости предоставляется по требованию клиента

| Должность         | Имя, фамилия  | Подпись   |
|-------------------|---------------|---|
| Инженер - химик   | Столярenco С. |  |
| Техник - лаборант | Мошной Т.     |  |

\* Методы испытаний не входят в область аккредитации

|   |   |                  |
|---|---|------------------|
| «LabTest - Airin» S.R.L.<br>мун. Кишинэу, ул. Дософтей, 124<br>email: labtestairin@mail.ru<br>тел. 068-00-55-35 | ПРОТОКОЛ ИСПЫТАНИЙ<br>№ <b>198/1 - 21</b><br>« 21 » апреля 2021 | Код: ПИ 7.8 - 1  |
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|   |   | Стр. 1/2         |



**УТВЕРЖДАЮ**

Директор «LabTest - Airin» SRL

Швец И.А.



« 21 » апреля 2021

**На испытание представлены образцы**

*Куртка и полукомбинезон из ткани смешанного состава (хлопок и полиэфир)*

**Заявитель** SRL „ECHIPROT”, г. Кишинёв, бул. Дачия, 53/5

**Количество представленных образцов** по 1 шт.

**Дата поступления образцов** 19.04.2021

**Дата начала испытаний** 20.04.2021      **Дата окончания испытаний** 21.04.2021

**Образцы отобраны и представлены на основе заявки № К-34-21 от 19.04.2021**

**Виды и цели испытаний** для информации

**Условия проведения испытаний**  $t = 18 - 22 \text{ } ^\circ\text{C}$

Результаты испытаний представлены в таблице.