

# Builder-240

100% COTTON

240 GSM / TWILL 3/1



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.

[www.xmtextiles.com](http://www.xmtextiles.com)

### XM TEXTILES EUROPE

Dariaus ir Gireno st. 42A, Room 509  
Vilnius, LT-02189, Lithuania  
Tel. +370 52 078 703  
[info@xmtextiles.com](mailto:info@xmtextiles.com)

### XM TEXTILES ROMANIA

Sos. Tamasi 20, Hala 6B, Parter,  
Buftea, 070000, Ilfov, Romania  
Tel. +40 31 630 3639  
[info@xmtextiles.com](mailto:info@xmtextiles.com)

### XM TEXTILES ITALIA SRL

Via dei Notai, Blocco 23, Centergross,  
40050 Funo di Argelato (BO), Bologna, Italy  
Tel. +39 051 952 8202  
[info@xmtextiles.com](mailto:info@xmtextiles.com)

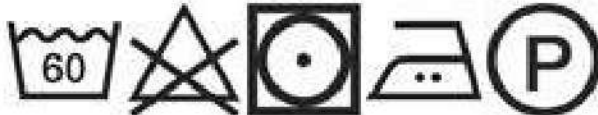
The following sample(s) was/were submitted and identified on behalf of the client as:

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 (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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# CERTIFICATE

## The company

**SHANGHAI XM GROUP LTD.**  
Room 2402-2403 Zhongyi International Commercial Plaza 1833  
Zhongshan North Road  
Shanghai 200061  
China

is granted authorisation according to STANDARD 100 by  
OEKO-TEX® to use the STANDARD 100 by OEKO-TEX®  
mark, based on our test report **BJ015 206122.1**



## for the following articles:

**Woven fabrics made of 100% CO, CO/PES, CO/PES/CF, CO/PA/CF (CF with anti-static function), piece-dyed (vat and disperse) (partly finished with flame retardant products accepted by OEKO-TEX®) or with water, soil or oil repellent finishing; woven fabric made of 100% PES, 100% PA, PES/EL, white, piece-dyed (disperse and acid) and finished, or woven fabric made of 100% PES, transfer printed (disperse incl. fluorescent colours) and finished, all with PAN coating; undyed or dyed (incl. fluorescent colours) knitted fabrics (incl. fleece) and UV protection fabrics made of 100% PES, PES/CO, PES/CV, 100% MAC, MAC/CO, MAC/CV, MAC/CO/PES, 100% PP, PP/PES, with or without spandex (EL) and with or without antistatic; dyed woven/knitted bonded fabric made of PES, PES/EL with or without PU, TPU, PTFE membrane laminated (based on material pre-certified according to STANDARD 100 by OEKO-TEX®)**

The results of the inspection made according to STANDARD 100 by OEKO-TEX®, Annex 4, **product class II** have shown that the above mentioned goods meet the human-ecological requirements of the STANDARD 100 by OEKO-TEX® presently established in Annex 4 for products with direct contact to skin.

The certified articles fulfil requirements of Annex XVII of REACH (incl. the use of azo colourants, nickel release, etc.), the American requirement regarding total content of lead in children's articles (CPSIA; with the exception of accessories made from glass) and of the Chinese standard GB 18401:2010 (labelling requirements were not verified).

The holder of the certificate, who has issued a conformity declaration according to ISO 17050-1, is under an obligation to use STANDARD 100 by OEKO-TEX® mark only in conjunction with products that conform with the sample initially tested. The conformity is verified by audits.

## The certificate BEWO 084394 is valid until 8/15/2023

Zurich, 7/22/2022

**Matz Bachmann**  
Managing Director

**Faisal Rizal**  
Ecology Team Leader

