

# Mechanic-280

100% COTTON

280 GSM / TWILL 3/1



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.

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

### XM TEXTILES EUROPE

Darius ir Gireno st. 42A, Room 509  
Vilnius, LT-02189, Lithuania  
Tel. +370 52 078 703  
info@xmtextiles.com

### XM TEXTILES ROMANIA

Sos.Tamasi 20, Hala 6B, Parter,  
Buftea, 070000, Ilfov, Romania  
Tel. +40 31 630 3639  
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

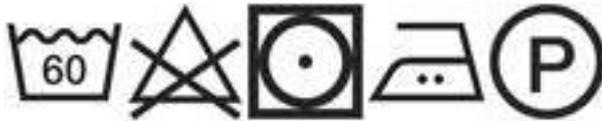
SHANGHIA XM GROUP LTD  
ROOM 2403, ZHONGYI INTERNATIONAL BUILDING NO.1833, NORTH ZHONGSHAN ROAD, SHANGHAI

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

Sample Description : (A)Woven fabric (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 (Account Executive)

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

3<sup>rd</sup> Building, No.889, Yishan Road, Xuhui District Shanghai, China 200233  
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666 f (86-21) 64958763  
t (86-21) 61402666 f (86-21) 64958763

[www.sgs.com](http://www.sgs.com)  
[sgs.china@sgs.com](mailto:sgs.china@sgs.com)

**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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SGS-CTC (Shanghai) Technical Services Co., Ltd. 3<sup>rd</sup> Building, No.889, Yishan Road, Xuhui District Shanghai, China 200233 t (86-21) 61402666 f (86-21) 64958763 www.sgs.com.cn  
Testing Center for Textiles and Apparel 中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t (86-21) 61402666 f (86-21) 64958763 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

**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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 中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t (86-21) 61402666 f (86-21) 64958763 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)