

IS : 1895 - 1982

Indian Standard
SPECIFICATION FOR
COTTON NEWAR
(*Second Revision*)

REAFFIRMED

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
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Indian Standard
SPECIFICATION FOR
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(*Second Revision*)

Narrow Fabrics, Webbing and Braids Sectional Committee, TDC 25

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BARDHAN

Representing

Ministry of Defence (DGI)

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Indian Standard
SPECIFICATION FOR
COTTON *NEWAR*
(*Second Revision*)

0. FOREWORD

0.1 This Indian Standard (Second Revision) was adopted by the Indian Standards Institution on 11 January 1982, after the draft finalized by the Narrow Fabrics, Webbing and Braids Sectional Committee had been approved by the Textile Division Council.

0.2 This standard was first published in 1970 and was based on IND/TC/0311 Tape Newar (Ministry of Defence). The present revision has been taken up for making it up to date in the light of the experience already gained.

0.3 The Standards of Weights and Measures Act, 1976 stipulates use of the International System of Units in the country; in order to familiarize the industry with this system, the recommended SI units for use in the textile industry are given in Appendix A.

0.4 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS: 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard covers grey, scoured, bleached or dyed cotton *NEWAR* of width 13, 25, 40, 50, 65, 75, 90 and 100 mm.

2. Material — Cotton yarn of 60 tex $\times$ 2 (10s/2) conforming to IS: 171-1973† may be found suitable.

*Rules for rounding off numerical values (revised).

†Specification for grey cotton yarn (second revision).

**AMENDMENT NO.1 OCTOBER 1992
TO
IS 1895 : 1982 SPECIFICATION FOR COTTON NEWAR**

(Second Revision)

(Page 3, Table 1, col 4) — Substitute 'g/m' for 'percent'.

(TX 12)

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3. PHYSICAL REQUIREMENTS

3.1 Weave — Plain, twill or Herringbone.

3.2 Length of the Roll — The length of the roll when measured in accordance with IS : 1954-1969* shall be 50 m unless otherwise specified in the contract or order. Short lengths of 10 m, *Min* each may be accepted up to a maximum of 10 percent of the quantity in a consignment.

3.3 The cotton *NEWAR* shall also comply with the requirements given in Table 1.

TABLE 1 REQUIREMENTS OF COTTON NEWAR

WIDTH	TOLERANCE ON WIDTH	MASS	TOLERANCE ON MASS	ENDS IN FULL WIDTH, <i>Min</i>	PICKS/ cm, <i>Min</i>	BREAKING STRENGTH, <i>Min</i> (FULL WIDTH × 50 cm)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
mm	mm	g/m	percent			N (kgf)
13	+ 2 - 0	6.2	± 0.3	35	8	355 (36)
25		12.5	± 0.5	70		705 (72)
40		19	± 1	100		1 060 (108)
50		25	± 1	135		1 420 (144)
65		31	± 2	170		1 770 (180)
75	+ 3 - 0	37	± 2	205		2 120 (216)
90		43	± 3	240		2 470 (252)
100		50	± 3	270		2 830 (288)
Method of Test	IS : 1954- 1969*	IS : 1964-1970†	IS : 1963-1981‡	IS : 1969-1968§		

*Methods for determination of length and width of fabrics (*first revision*).

†Methods for determination of weight per square metre and weight per linear metre of fabrics (*first revision*).

‡Methods for determination of threads per unit length in woven fabrics (*first revision*).

§Method for determination of breaking load and elongation at break of woven textile fabrics (*first revision*).

*Methods for determination of length and width of fabrics (*first revision*).

4. CHEMICAL REQUIREMENTS

4.1 The *NEWAR* should be free from sizing and filling materials, and shall satisfy the requirements given in Table 2.

TABLE 2 REQUIREMENTS OF COTTON NEWAR

CHARACTERISTIC	REQUIREMENT	METHOD OF TEST
(1)	(2)	(3)
Colour fastness of dyed <i>NEWAR</i> to:		
Light	3 or better	IS : 2454-1967*
Washing: Test 3	4 or better	IS : 764-1969†
pH value of aqueous extract	6.0 to 8.5	IS : 1390-1961‡
Scouring loss, <i>Max</i> :		
Bleached	2 percent	IS : 1383-1977§ (Mild Method)
Scoured/dyed	4 percent	
Grey	7 percent	

*Method for determination of colour fastness of textile materials to artificial light (xenon lamp).

†Method for determination of colour fastness of textile materials to washing: Test 3 (second revision).

‡Methods for determination of pH value of aqueous extracts of textile materials.

§Methods for determination of scouring loss in grey and finished cotton textile materials (first revision).

5. PACKING

5.1 The rolls packed in bundles or bales shall be supplied loose or in adequately waterproof packing as detailed in the contract or order.

6. MARKING

6.1 Each roll shall bear label providing information about name/trade mark of the manufacturer, length (m), mass (kg), width (mm) and finish (whether grey/scoured/bleached/dyed).

6.1.1 Each roll may also be marked with the ISI Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act and the Rules and Regulations made thereunder. The ISI Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

7. SAMPLING**7.1** As follows unless otherwise specified:

<i>For Length, Width, Ends and Picks</i>			<i>Sub-sample Size of Mass, Scouring Loss, pH, Breaking Strength, Colour Fastness</i>
Lot Size (Rolls)	Sample Size (Rolls)	Permissible Number of Defective Rolls	
Up to 50	3	0	3 } 'Mean $\pm$ 0.6 range' to be within the specified limits
51 to 150	5	0	
151 to 300	8	1	
301 to 500	13	1	
501 and above	20	2	

APPENDIX A

(Clause 0.3)

RECOMMENDED SI UNITS FOR TEXTILES

<i>SI No.</i>	<i>Characteristic</i>	<i>SI Unit</i>		<i>Application</i>
		Unit	Abbreviation	
(1)	(2)	(3)	(4)	(5)
1.	Length	Millimetre	mm	Fibres Samples, test specimens (as appropriate) Yarns, ropes, cordage, fabrics
		Millimetre, centimetre	mm, cm	
		Metre	m	

Sl No.	Characteristic	SI Unit		Application
		Unit	Abbreviation	
(1)	(2)	(3)	(4)	(5)
2.	Width	Millimetre	mm	Narrow fabrics
		Centimetre	cm	Other fabrics
		Millimetre, centimetre	mm, cm	Samples, test specimens (as appropriate)
		Centimetre, metre	cm, m	Carpets, druggets, <i>DURRIES</i> (as appropriate)
3.	Thickness	Micrometre (micron)	μ m	Delicate fabrics
		Millimetre	mm	Other fabrics, carpets, felts
4.	Linear density	Tex	tex	Yarns
		Millitex	mtex	Fibres
		Decitex	dtex	Filaments, fila- ment yarns
		Kilotex	ktex	Slivers, ropes, cordage
5.	Diameter	Micrometre (micron)	μ m	Fibres
		Millimetre	mm	Yarns, ropes, cordage
6.	Circumference	Millimetre	mm	Ropes, cordage
7.	Threads in fabric:			Woven fabrics (as appro- priate)
a)	Lengthwise	Number per centimetre	ends/cm	
		Number per decimetre	ends/dm	
b)	Widthwise	Number per centimetre	picks/cm	
		Number per decimetre	picks/dm	

Sl No.	Characteristic	SI Unit		Application
		Unit	Abbreviation	
(1)	(2)	(3)	(4)	(5)
8.	Warp threads in loom	Number per centimetre	ends/cm	Reeds
9.	Stitches in knitted fabric:			Knitted fabrics (as appropriate)
	a) Lengthwise	Courses per centimetre	courses/cm	
		Courses per decimetre	courses/dm	
	b) Widthwise	Wales per centimetre	wales/cm	
		Wales per decimetre	wales/dm	
10.	Stitch length	Millimetre	mm	Knitted fabrics, made-up items
11.	Mass per unit area	Grams per square metre	g/m ²	Fabrics
12.	Mass per unit length	Grams per metre	g/m	Fabrics
13.	Twist	Turns per centimetre	turns/cm	Yarns, ropes, cordage (as appropriate)
		Turns per metre	turns/m	
14.	Test or gauge length	Millimetre, centimetre	mm, cm	Fibre, yarn and fabric specimens (as appropriate)
15.	Breaking load	Millinewton	mN	Fibres, delicate yarns (individual or skeins)
		Newton	N	Strong yarns (individual or skeins), ropes, cordage, fabrics

Sl No.	Characteristic	SI Unit		Application
		Unit	Abbreviation	
(1)	(2)	(3)	(4)	(5)
16.	Breaking length	Kilometre	km	Yarns
17.	Tenacity	Millinewton per tex	mN/tex	Fibres, yarns (individual or skeins)
18.	Twist factor or twist multiplier	Turns per centimetre $\times$ square root of tex	turns/cm $\times \sqrt{\text{tex}}$	Yarns (as appropriate)
		Turns per metre $\times$ square root of tex	turns/m $\times \sqrt{\text{tex}}$	
19.	Bursting strength	Newton per square centimetre	N/cm ²	Fabrics
20.	Tear strength	Millinewton, newton	mN, N	Fabrics (as appropriate)
21.	Pile height	Millimetre	mm	Carpets
22.	Pile density	Mass of pile yarn in grams per square metre per millimetre pile height	g/m ² /mm pile height	Pile carpets
23.	Elastic modulus	Millinewton per tex per unit deformation	mN/tex/unit deformation	Fibres, yarns, strands