Indian Standard
SPECIFICATION FOR
COTTON DUCK
(Third Revision)

IS: 1422 - 1983 (Reaffirmed 2000)

Spectro Research Lab Ventures (P) Ltd.
G-3, Factory Premises No. 5
Bhatta Area, Raniganj
Near Panki Industrial Area,
Site-IV, Kanpur

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BUREAU OF INDIAN STANDARDS MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG NEW DELHI 110002

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January 1984

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(Third Revision)

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Rishra Industries, Shree Textiles & (Hooghly)

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SHRI K. GOPINATH Jay
SHRI A, K. MITRA Ind

Shri Ram Fibres Limited, Trichy Madura Coats Limited, Madurai Jaya Shree Textiles, Rishra (Hooghly) India Waterproofing & Dyeing Works, Calcutta

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SHRI A. CHELLARAJ SHRI K. GOPINATH SHRI A, K. MITRA

Shri Ram Fibres Limited, Trichy Madura Coats Limited, Madurai Jaya Shree Textiles, Rishra (Hooghly) India Waterproofing & Dyeing Works, Calcutta

AMENDMENT NO. 4 MAY 2002 TO IS 1422: 1983 SPECIFICATION FOR COTTON DUCK

(Third Revision)

[Page 6, clause 5.1(e)] — Substitute 'Month and year of manufacture;' for the existing.

(Page 6, Table 2, title) — Substitute 'DUCK' for 'DOUCK'.

(Page 7, clause 6.1) - Substitute the following for the existing:

'6.1 The cloth shall be packed in bales or cases or rolls or pellets in conformity with the procedure laid down either in IS 1347 or IS 293 as required. The package thus obtained shall also be marked with name and full address of the manufacturer.'

(TX 30)

Reprography Unit, BIS, New Delhi, India

AMENDMENT NO. 3 OCTOBER 1992 TO IS 1422: 1983 SPECIFICATION FOR COTTON DUCK

(Third Revision)

(Page 4, clause 1.2) — Insert the following new clause after 1.2:

'1.3 The cotton duck covered under this specification is not suitable for belting.'

(TXD 24)

Printed at Simco Printing Press, Delhi, India

AMENDMENT NO. 2 NOVEMBER 1989

IS: 1422 - 1983 SPECIFICATION FOR COTTON DUCK

(Third Revision)

(This amendment is being issued to specify that the number of plies of the plied yarn are mandatory; however, the count of single yarn is approximate and given for guidance only.)

(Page 4, clause 4.1) (see also Amendment No. 1) — Substitute the following for the existing clause:

'4.1 Constructional Particulars — The constructional particulars of grey, scoured or dyed cloth shall conform to Table 1. The count of single yarn is approximate and given for the guidance of the manufacturers. The number of plies, however, shall not be changed.'

(Page 5, Table 1) - Insert the following Note 3 in Table 1:

'Note 3 — The count of single yarn is approximate and given for the guidance of the manufacturers. The number of plies, however, shall not be changed.'

(TDC 49)

Printed at Simco Printing Press, Delhi, India

AMENDMENT NO. 1 APRIL 1987

TO

IS:1422-1983 SPECIFICATION FOR COTTON DUCK (Third Revision)

'counts and plies' for 'counts'.

Page 5, Table 1, heading of col (2) and (3)]
- Substitute 'Count and Ply of Yarn, for 'Count of Yarn'.

(TDC 49)

Printed at Simco Printing Press, Delhi, India

5.1.1 The cloth may also be marked with the Standard Mark.

5.1.2 The use of the Standard Mark is governed by the provisions of Bureau of Indian Standards Act, 1986 and the Rules and Regulations made thereunder. The details of conditions under which the licence for the use of Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

6. PACKING

6.1 The cloth shall be packed in bales or cases in conformity with the procedure laid down either in IS: 1347-1972* or in IS: 293-1983† as required.

7. SAMPLING

7.1 For ascertaining the conformity in respect of length, width, breaking strength, mass, ends and picks, the number of tests and criteria for conformity as given in IS: 3919-1966‡ shall be followed.

7.2 For ascertaining the conformity of the material in respect of scouring loss, pH value, shrinkage or elongation, and colour fastness, the scale of sampling and criteria for conformity as given in IS: 5463-1969§ shall be followed.

^{*}Specification for inland packaging of cotton cloth and yarn (first revision). †Gode for seaworthy packaging of cotton yarn and cloth (third revision). †Methods for sampling cotton fabrics for determination of physical characteristics. §Methods for sampling of cotton fabrics for chemical tests.

- d) Identification mark at both ends;
- e) Year of manufacture;
- f) Width and length of the piece; and
- g) Any other particulars required by the buyer or by the law or regulation in force.

TABLE 2	2 1	REQUIREMENTS FOR	COTTON	DOUCK
1 ADDES		(Clause 4.2)		

35	CHARACTERISTIC	REQUIREMENT	METHOD OF TEST
No.		(3)	(4)
(1)	(2)	(3)	1000 10778
i)	Scouring loss, percent, Max:		IS: 1383-1977* (Mild method)
		5-0	
	Grey Scoured or Dyed	2.5	
ii)	ar (accurred or dyed)	6-0 to 8-5	IS: 1390-1983† (Cold method)
			IS: 2977-1964‡
iii)	Shrinkage or elongation, pergent, Max:		
	- Inches	5-0	
	Grey. Scoured or dyed	2.5	
	Colour fastness (for dyed duck) to:		
iv	a) Light	4 or better	IS: 686-1957§ or IS: 2454-1967
	b) Washing: Test 3	4 or better	IS: 764-1979¶
	D) Transier 6		1tem textile

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

†Methods for determination of pH value of aqueous extract of textile materials

(first revision).

[Method for determination of dimensional changes of woven fabrics (other than the thought of the them that wool) on soaking in water.

[Method for determination of colour fastness of textile materials to daylight.

[Method for determination of colour fastness of textile materials to artificial light.]

[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).

	WEAVE		3	153.6	Plain			1	Visual
	Wibти		(10)	cm +/	48	124.55 - 10%	sur No.	# 1	954-1969
UCIK	KROTH		(6)	8	A.23	24.55		1	‡ IS:
TABLE 1 CONSTRUCTIONAL PARTICULARS OF COTTON DUCK (Clause 4.1)	Ends/ Pioks/ Mass Breaking Load on Length Width Weave cm cm 5 × 20 cm Ravelled Strift, Min	Weftway	(8)	Z	2010 170.23	1 320 } /3	930	1	IS: 1963-1981* IS: 1964-1970† IS: 1969-1968‡ IS: 1954-1969§ Visual
	BREAKING LOA 5 × 20 cm RAVELLED STRIPS, Min	Warpway	6	Z	2 010	1 320	930	ı	4-1970† I
TICUL	Mass		(9)	g/mª	745	475	340	# 2	1S: 196
(Clause 4.1)	Pioxs/ cm		(5)		9 10	=	14 16	±5 ±5	*1861-
CTION	ENDS/ cm		(4)		16	18	24 22	# 2	S: 1963
LE 1 CONSTRU	1	Weft	(3)	(Universal Count)	$10s/6(59 \text{ (ex } \times 6))$ $10s/4(59 \text{ (ex } \times 4))$	10s/3(59 tex × 3)	14s/4(42 tex × 4) 18s/3(33 tex × 3) 14s/2(42 tex × 2)	1	1
TAE	85	Warp	(2)	Cotton Count	10s/4(59 tex × 4).	ls/3(42 tex × 3)	$18s/2(33 \text{ tex} \times 2)$ $14s/2(42 \text{ tex} \times 2)$	NCE	Merhod of Test -
	VARIETY No.		Ξ		1 10 2		5 14	TOLERANCE	Метно

Nors: 1—To convert cotton count to universal count, in tex, divide 590.5 by the cotton count.

Nors: 2—1 N (newton) is approximately equal to 0.102 kgf.

*Methods for determination of threats per unit length in woven fabrics (second revision).

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

#Methods for determination of breaking load and clongation at break of woven textile fabrics (first revision).

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

1.1 This standard prescribes the constructional details and other particulars of five varieties of cotton duck. The cotton duck may be grey,

1.2 This standard does not specify the general appearance, feel, finish, etc, of the cloth (see also 4.3).

2.0 For the purpose of this standard, the following defintions shall

2.1 Duck - A closely woven plain weave, strong, heavy cloth. It is used as sails, boot linings, tarpaulin, etc.

3. MANUFACTURE

3.1 Yarn - The yarn used for the manufacture of the cloth shall be satisfactory in evenness and reasonably free from neps and spinning and

3.2 The cloth should be free from sizing, filling and dressing materials and substance liable to cause subsequent tendering. The dyed cloth should be free from stains, streaks, patches and specks.

4. REQUIREMENTS

4.1 Contsructional Particulars - The constructional particulars of grey, scoured or dyed cloth shall conform to Table I except the counts of yarns which are given only for the guidance of the manufacturers.

4.2 The cloth shall also conform to the requirements given in Table 2.

4.3 Sealed Sample — If, in order to illustrate or specify the general appearance, feel and such other characteristics of the cloth, a sample has been agreed upon and sealed, the supply shall be in conformity with the sample in such respects.

4.3.1 The custody of the sealed sample shall be a matter of prior agreement between the buyer and the seller.

5. MARKING

5.1 The cloth shall be marked with the following:

a) Manufacturer's name, initials or trade-mark;

b) Name of the material;

c) Variety number;

Indian Standard SPECIFICATION FOR COTTON DUCK (Third Revision)

O. FOREWORD

0.1 This Indian Standard (Third Revision) was adopted by the Indian Standards Institution on 26 September 1983, after the draft finalized by the Industrial Textiles Sectional Committee had been approved by the Textile Division Council.

0.2 The standard, formulated in 1959, was revised in 1970 and 1977. This third revision has been made in the light of experience gained in implementing the standard. Provisions of waterproofing and the requirements of the proofed cloth have been eliminated in this revision as these are covered in IS: 2089-1977* and IS: 6803-1972†. This revised version relates to basic fabric mainly.

0.3 Variety No. 1 of cotton duck prescribed in this standard is based on IND/TC/0201 (d) 'Specification for Duck, Cotton, 745 g/m² (22 oz); Variety No. 2 on IND/TC/0125 (b) 'Specification for Duck, Cotton, 610 g/m² (18 oz); Variety No. 3 on IND/TC/0124 (b) 'Specification for Duck, Cotton, 475 g/m² (14 oz); and Variety No. 4 on IND/TC/0202 (b) 'Specification for Duck, Cotton 340 g/m² (10 oz); issued by the Ministry of Defence, Government of India, Variety No. 5 is an alternate to Variety No. 4.

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.

^{*}Specification for common proofed canvas/duck and paulins (tarpaulins) (second

^{**}evision).

†Specification for special proofed canvas and duck.

†Rules for rounding off numerical values (revised).

BUREAU OF INDIAN STANDARDS

BUREAU OF INDIAN STANDARDS	
Headquarters: Manak Bhavan, 9 Bahadur Shah Zafar Marg, NEW DELHI 110002 Manak Bhavan, 9 Bahadur Shah Zafar Marg, NEW DELHI 110002 Telephones: 323 0131, 323 3375, 323 9402 Telephones: 323 0131, 323 3393, 91 11 3239382 Fax: 91 11 3234062, 91 11 3239399, 91 11 3239382 (Common to	all Offices)
	Telephone
Central Laboratory: Plot No. 20/9, Site IV, Sahibabad Industrial Area, Sahibabad 201010	8-77 0032
	323 76 17
	337 86 62
Coherne VII M. V.I.P. Hodd, Iwas and Indian	60 38 43
and one one say Sector 34-A. Unantition	235 23 15
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