

KIT BAG, UNIVERSAL - SPECIFICATION

1 SCOPE

1.1 This standard prescribes the requirements of Kit bag, universal.

2 REFERENCES

2.1 The Indian Standards listed in Annex A are necessary adjuncts to this standard.

3 MATERIALS

3.1 The materials used in the manufacture of Kit bag shall conform to the following:

4.2 Bottom

The bottom of the bag shall consist of two layers of cotton duck and the same shall be in circular form. The round edge of the bottom shall be joined to the body of the bag as shown in Fig. 1.

4.3 Loop

A loop made by folding and stitching a strip of cotton duck (thus making it in double thickness) shall be inserted in the seam joining the bottom and the body of the bag and then securely sewn as shown in Fig. 1. The finished

Components	Materials	Conforming to
a) Body, top flap, bottom, reinforcement band and loop	Cotton duck, dyed, 475 g/m ²	Variety No. 3 of IS 1422: 1983
b) Draw cord, 6 mm dia.	Cotton line, dyed	IS 3252: 1987
c) Stitching	Sewing thread, dyed, 165 d tex × 6 (36s/6)	Variety No. 28 of IS 1720: 1978

NOTE — For defence supplies, all the materials used shall be dyed in olive green shade.

4 MANUFACTURE

4.1 Body

The body of the kit bag shall be manufactured from one piece of single layer of cotton duck joined vertically by a lapped seam. The selvages at the top of the body shall be turned on the outside to a depth of 4 to 5 cm to form a hem for passage of the tying string. The opening of the hem shall be formed by turning back the loose edges the turned portions of the hem diagonally and then stitching them as shown in Fig. 1. A reinforcement piece (band) between 7 to 9 cm wide shall be stitched all round at the bottom of the body as shown in Fig. 1.

dimensions of the loop shall be 12 cm × 2 cm including a 4 cm long rectangular tack.

4.4 Top Flap

The flap at the top of the bag made from cotton duck shall be circular in form with an elongated end and hemmed allround with raw edges turned in. The elongated end shall be securely stitched to the mouth of the bag on the hem line behind the opening as shown in Fig. 1.

4.5 Draw Cord

The draw cord shall be provided in the hem at top and knotted at both the ends.

4.6 Stitchings

The kit bag shall be assembled with lock stitch, of even tension throughout, and loose ends securely fastened off. The number of stitches shall be 20 to 30 per decimetre using cotton sewing thread of 165 d tex × 6 (36s/6).

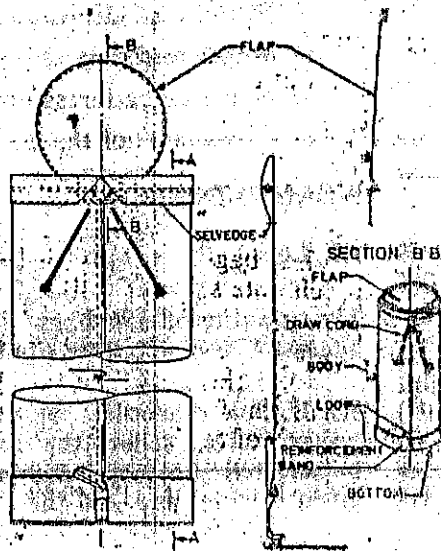
5 REQUIREMENTS

5.1 The general make-up of the kit bag shall be same as shown in Fig. 1.

5.2 The dimensions of the kit bag shall be same as given in Table 1.

5.3 The measurements of dimensions of kit bag shall be taken on a flat surface without stretching.

5.4 If, in order to illustrate or specify the characteristics, such as workmanship and finish, general appearance, feel and shade of the bag which



SECTION A-A

FIG. 1 KIT BAG, UNIVERSAL

IS : 1422 - 1983
(Reaffirmed 2005)

Indian Standard
SPECIFICATION FOR
COTTON DUCK
(*Third Revision*)

Fourth Reprint SEPTEMBER 2007
(Including Amendment Nos. 1, 2, 3 & 4)

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 2 BAHADUR SHAH ZAFAR MARG
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Gr 2

January 1984

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)

Printed at Simeco Printing Press, Delhi

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
TO
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)

(Page 4, clause 4.1, line 2) - Substitute
'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

Indian Standard

SPECIFICATION FOR COTTON DUCK

(Third Revision)

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IS : 1422 - 1983

(Continued from page 1)

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Indian Standard

SPECIFICATION FOR COTTON DUCK

(Third Revision)

0. 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 : 2082-1977* 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 revision).

†Specification for special proofed canvas and duck.

‡Rules for rounding off numerical values (revised).

1. SCOPE

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

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

2. TERMINOLOGY

2.0 For the purpose of this standard, the following definitions shall apply.

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 doubling defects.

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 **Constructional Particulars** — The constructional particulars of grey, scoured or dyed cloth shall conform to Table 1 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;

TABLE 1 CONSTRUCTIONAL PARTICULARS OF COTTON DUCK
(Class 4.1)

VARIETY No.	COUNT OF YARN (APPROXIMATE) (see Note 1)	ENDS/ cm		PIERS/ cm	MASS g/cm ²	BREAKING LOAD ON 5 x 20 cm RAVELLED STRIPS, <i>M</i> ₅₀		LENGTH		WIDTH	WEAVE
		Warp				Weft		Warpage			
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	Cotton Count (Universal Count)						N	N	m	cm	
1	10s/4 (59 tex x 4)	10s/5 (59 tex x 6)	16	9	745	2 010	2 010	2 010	As	As	Plain
2	16s/3 (39 tex x 3)	16s/4 (39 tex x 4)	16	10	610	1 670	1 670	1 670	agreed	agreed	
3	14s/3 (42 tex x 3)	10s/3 (59 tex x 3) or 14s/4 (42 tex x 4)	18	11	475	1 320	1 320	1 320			
4	18s/2 (33 tex x 2)	18s/3 (33 tex x 3)	24	14	340	930	930	930			
5	14s/2 (42 tex x 2)	14s/3 (42 tex x 3)	22	16	340	930	930	930			
TOLERANCE			± 5	± 5	± 5					± 1	
PERCENT											
METHOD OF TEST											
			IS : 1963-1981*	IS : 1964-1970†	IS : 1968-1980‡	IS : 1968-1980‡	IS : 1964-1970†	IS : 1968-1980‡	IS : 1954-1963§	Visual	

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

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

* Methods for determination of threads per unit length in woven fabrics (standard 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 elongation at break of woven textile fabrics (first revision).

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

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- 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 REQUIREMENTS FOR COTTON DUCK

(Clause 4.2)

Sn No.	CHARACTERISTIC	REQUIREMENT	METHOD OF TEST
(1)	(2)	(3)	(4)
i)	Scouring loss, percent, <i>Max</i> :		IS : 1383-1977* (Mild method)
	Grey	5.0	
	Scoured or Dyed	2.5	
ii)	pH value (scoured or dyed)	6.0 to 8.5	IS : 1390-1983† (Cold method)
iii)	Shrinkage or elongation, percent, <i>Max</i> :		IS : 2977-1964‡
	Grey	5.0	
	Scoured or dyed	2.5	
iv)	Colour fastness (for dyed duck) to:		
	a) Light	4 or better	IS : 686-1957§ or IS : 2454-1967
	b) Washing : Test 3	4 or better	IS : 764-1979¶

*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 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 (xenon lamp).

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

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).

†Code 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.