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Specification No.IND/ADE/0087/a

SCOPE

1 This specification covers the requirements of Canvases Cotton Dyed and Canvasses Cotton Dyed Waterproof weighing 408 gms, 542 gms, 678 gms and 814 gms per Sq Mtr.

GENERAL

2 The Canvasses described in this specification are used in the manufacture of Aerial Delivery Equipments.

MATERIAL

3 The canvasses shall be all cotton.

MANUFACTURE/WORKMANSHIP AND FINISH

4 The Canvas shall be woven in an oxford weave (i.e. plain weave with two ends working as one). The waterproof finish shall be imparted by treating the fabric with a suitable composition adding not more than 15% on the weight of the unproofed fabric. The waterproof canvas shall be rendered resistant to microbial attack by incorporating coper Napthenate or other suitable rot proofing agent.

5 The canvas shall be free from spinning, weaving and other processing defects. The dyed canvas shall be to the approved shade, free from stains, streaks, patches and speeks.

DIMENSIONS AND OTHER DETAILS

6 The canvasses shall conform to the particulars given in the attached Schedule-I.

TESTS

7 Reference may be made to the following ISI Standards for the method of tests of the particulars given in the schedule:

(a) Dimensions (length & width)	as per IS: 1954-1961
(b) Counts of Yarn	as per IS: 1315-1959
(c) Wt/Sq m.	as per IS: 1964-1961
(d) Threads per unit length	as per IS: 1963-1961
(e) Breaking Strength	as per IS: 1969-1961

8 pH Value : The pH Value of the aqueous extract of Canvas when determined by the hot method prescribed in IS: 1390-1961 shall be not less than 6 not more than 8.5.

9 Dye Fastness to Light : When determined by the method prescribed in IS:686-1957 shall be 5 or better.

10 Dye Fastness to Washing : The dyed Canvas, when tested in accordance with the IS:764-1956, there shall be no change in shade or sign of bleeding on the attached piece of white cotton material.

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11 Waterproofness : When tested by Bundesmann method as described in IS:392-1964% Absorption should not exceed 60%.

12 Resistance to microbial attack : It should be tested as described in IS:1389-1959.

13 %Shrinkage : The fabric shall not shrink or elongate more than 2½% in Warp and Weft direction when tested as described in Appendix 'A'.

MARKING

14 Each piece shall be legibly and indelibly marked with the nomenclature and Cat. No. of the store, manufacturer's name, length of the piece and the year of supply.

PACKAGING

15 One piece of 40 metres length shall be arranged in bundles and secured by jute twine to form a unit pack. Suitable number of such packs shall then be arranged and wrapped with polythene 150 gauge/is not readily available) and finally with one layer of cloth 'C' Heavy or equivalent Hessian cloth to form a bale of gross weight of approximate 250 Kg. The bales shall be suitably stitched and made secure by fastening with metal hoops, metal wire or cordages of sufficient strength. Packing materials used shall be of best trade quality previously approved by the Inspecting Officer.

16 For DOS packing the store shall be packed as per details given in para 14 to form compact bales of gross weight of 37 Kg.

17 If ordered for delivery to a local Inspection Depot, the canvas shall be delivered in firm's returnable packs and after inspection the acceptable supplies shall be packed by the Inspection Depot Authorities as given in para 15.

18 Before despatch each bale shall be legibly and indelibly marked showing the following details:

(a) Nomenclature and Cat. No. of the store
(b) Quantity packed in the bale
(c) Serial No. of the bale
(d) Month and Year of packing
(e) Name and trade mark of the manufacturer
(f) Gross weight of the bale in Kg
(g) Name and Address of the consignee
(h) Inspection Note and No. and date

PRE-INSPECTION

19 Before tendering the store to the Govt. Inspector, the supplier will carry out a thorough pre-inspection of each delivery to satisfy himself that the stores fully conform to the specification.

/(one layer of paper kraft wrapping followed by one layer of paper packing waterproof can be used in emergent condition when polythene film 150 gauge

INSPECTION

20 (a) If, on examination, material from any portion of a consignment is found not to be fully in accordance with this specification, the whole consignment is liable to be rejected.

(b) If, on examination of 20% of any delivery, 20% of those examined are found not to conform to this specification in any respect then the whole consignment may be rejected.

(c) All pieces not fully in accordance with this specification shall be rejected.

Note (a) Specifications in the ISI Series are held and issued by the Director, Indian Standards Institution, Manak Bhavan, 9-Bahadur Shah Zafar Marg, New Delhi-1 or his regional office at Bombay, Calcutta, Madras and Kanpur

(b) Defence Specifications in the IND/ADE, IND/GS, IND/TC and IND/SL (whichever applicable) are held and issued on payment by the Chief Inspector, CIT&C, Kanpur-1, CIGS, CIT&C and Director of Research Laboratory, (Materials), Kanpur respectively or from their regional Inspector located at Bombay, Madras, Calcutta, Delhi and Kanpur.

KANPUR
DATED 15 July 75

for CHIEF INSPECTOR
CHIEF INSPECTORATE OF TEXTILES & CLOTHING

Checked by
1. Z.S. Parmar
2. R.S. Hans

BS
12/7/71

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SCHEDULE-I to Prov Specification No. IND/ADE/0087

CANVAS COTTON VARIOUS

Length in Metres	Width in Centimetres	Weight per Sq metre in gms	Counts of Yarn Approx.		No. of threads per Cm		BS (7.5 x 18) Cm bet. grips in ~~Kgs~~ N Minimum Av.		Weave
			Warp	Weft	Warp	Weft	Warp	Weft	
40 Metres or as ordered -0	92+1.3 Cm	407 Gms	30 Tex/2	25 Tex/3	37	18	2050 N ~~200 Kgs~~	1608 ~~164~~	Oxford
40 Metres or as ordered -0	92+1.3 Cm	542 Gms	32.8 Tex/3	42.2 Tex/3 or 32.8 Tex/4	28	14	2667 ~~272~~	2226 ~~227~~	Oxford
40 Metres or as ordered -0	92+1.3 Cm	678 Gms	42.2 Tex/3	59 Tex/3 or 42.2 Tex/4	26	13	3119 ~~318~~	2667 ~~272~~	Oxford
40 Metres or as ordered -0	92+1.3 Cm	814 gms	59 Tex/3	59 Tex/4	23	12	3785 ~~386~~	3207 ~~327~~	Oxford

Note:- 1kg Force = 9.8665 Newton (N)

APPENDIX 'A'

DETERMINATION OF SHRINKAGE

A test piece not less than 60 x 60 Cms shall be cut (not torn) from the sample accurate markings of not less than 50 Cms shall be made in warp and weft directions and the test piece shall be immersed in 0.5% soap solution at room temperature for twenty four hours, taken out laid flat and allowed to dry on a flat smooth surface in an atmosphere of 65 ± 2% R.H. and 27° ± 2°C. measurements shall be taken under plate glass before and after the treatment and the percentage of shrinkage and elongation calculated.

BS
12/7/71